



DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

11/24/2025

Regulatory Division
File Number: NAE-2022-01684

Nicholas Erickson
City of Fitchburg
301 Broad Street
Fitchburg, Massachusetts 01420
Email: nerickson@fitchburgma.gov

Dear Nicholas Erickson:

This letter is in regard to your preconstruction notification submitted to the U.S. Army Corps of Engineers (USACE) for the discharge of 8,000 cubic yards of sediment across 131,688 square feet of wetlands and streambed below the ordinary high water (OHW) mark for the purpose of creating a stream post dam removal. This project is located in McTaggart's Pond and Phillips Brook, adjacent to 288 Sanborn Street, Fitchburg, Massachusetts 01420 at approximate site coordinates: 42.579511, -71.841728. The work is shown on the enclosed plans titled "MCTAGGART'S POND DAM (MA00879) REMOVAL AND PHILLIPS BROOK RESTORATION PROJECT", on 25 sheets, and dated "DECEMBER 2024."

Specifically, the project involves the following activities, which will result in the discharge of dredged or fill material within waters of the United States:

- Removal of McTaggart's Pond dam and its associated structures
- Installation of temporary construction mats on 124,800 square feet of wetlands to facilitate the movement of heavy construction equipment
- Conversion of 112,738 square feet of wetlands to streambed and uplands
- Passive mobilization of 2,050 cubic yards of sediment

Based on the information that you have provided, we verify that the activity is authorized under General Permit # 10 and # 24 of the June 2, 2023, federal permit known as the Massachusetts General Permits (GPs). The GPs are available at <https://www.nae.usace.army.mil/Missions/Regulatory/State-General-Permits/Massachusetts-General-Permit>.

Please review the enclosed GPs carefully, in particular the general conditions beginning on page 35, and ensure that you and all personnel performing work authorized by the GPs are fully aware of and comply with its terms and conditions. A copy of the GPs and this verification letter shall be available at the work site as required by General Condition 17. You must perform this work in compliance with the following special

condition(s):

- 1) All construction shall be completed in accordance with the limits of construction and construction sequences detailed on the enclosed plan drawings, titled "MCTAGGART'S POND DAM (MA00879) REMOVAL AND PHILLIPS BROOK RESTORATION PROJECT," on a total of 25 sheets, and dated "DECEMBER 2024". If you change the plans or construction methods for work within or adjacent to the McTaggart's Pond and Phillips Brook, please contact us immediately to discuss modification of this authorization. The Corps of Engineers must approve any changes before you undertake them.
- 2) You must complete and return the enclosed Work Start Notification Form to this office at least two weeks before the anticipated start date. The form shall be emailed to Maninder Singh at Maninder.Singh@usace.army.mil and cenae-r-ma@usace.army.mil; or mailed to Maninder Singh, Regulatory Division, U.S. Army Corps of Engineers, New England District, 696 Virginia Road, Concord, Massachusetts 01742-2751.
- 3) You must complete and return the enclosed Compliance Certification Form to this office within 30 days of the completion of work. The form shall be emailed to Maninder Singh at Maninder.Singh@usace.army.mil and cenae-r-ma@usace.army.mil; or mailed to Maninder Singh, Regulatory Division, U.S. Army Corps of Engineers, New England District, 696 Virginia Road, Concord, Massachusetts 01742-2751.
- 4) Time of the year (TOY) restriction will apply from June 1st to August 15th of any year to all tree removal activities to minimize impacts to the Tricolored Bat. No tree removal activities shall occur within the TOY restriction period.

This authorization expires on June 1, 2028. You must commence or have under contract to commence the work authorized herein by June 1, 2028, and complete the work by June 1, 2029. If not, you must contact this office to determine the need for further authorization and we recommend you contact us *before* the work authorized herein expires. Please contact us immediately if you change the plans or construction methods for work within our jurisdiction as we must approve any changes before you undertake them. Performing work within our jurisdiction that is not specifically authorized by this determination or failing to comply with the special condition(s) provided above or all the terms and conditions of the GPs may subject you to the enforcement provisions of our regulations.

This authorization does not obviate the need to obtain other federal, state, or local authorizations required by law. Applicants are responsible for applying for and obtaining any other approvals.

We continually strive to improve our customer service. To better serve you, we would appreciate your completing our Customer Service Survey located at <https://regulatory.ops.usace.army.mil/customer-service-survey>.

Please contact Maninder Singh of my staff at (978) 318-8967 or (978)-257-6884 or Maninder.Singh@usace.army.mil if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Christine Jacek".

Christine Jacek
Chief, Massachusetts Branch

Enclosures:

- 1) Project Plans
- 2) Work Start Notification
- 3) Compliance Certification

Cc:

Sulata (Arianna) Paul, Fuss & O'Neill, Sulata.Paul@fando.com
Nathan Margason, U.S. EPA, Region 1, Boston, MA, Margason.Nathan@epa.gov
DEP CERO, Wetlands and Waterways, Worcester, MA; cero_noi@mass.gov
David Wong, MassDEP, david.w.wong@mass.gov
David Robinson, MA Board of Underwater Archaeological Resources (BUAR);
david.s.robinson@mass.gov
Fitchburg Conservation Commission, MOHara@fitchburgma.gov

MCTAGGART'S POND DAM (MA00879)

REMOVAL AND PHILLIPS BROOK RESTORATION PROJECT

SANDBORN STREET · FITCHBURG · MASSACHUSETTS

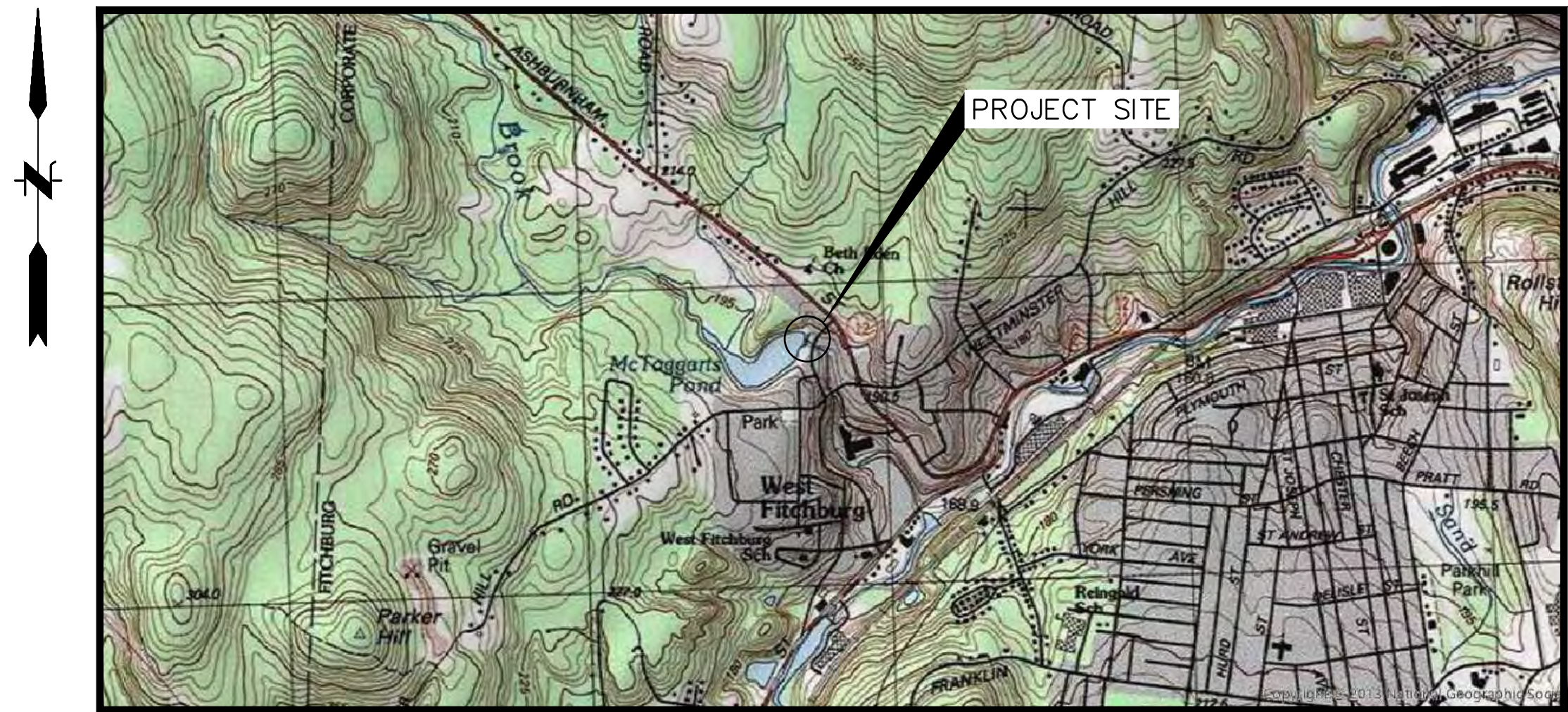
PERMITTING PLANS

DECEMBER 2024



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LOCATION MAP
SCALE: 1" = 2000'



THIS PROJECT IS FUNDED IN PART BY
THE MASSACHUSETTS EXECUTIVE
OFFICE OF ENERGY AND
ENVIRONMENTAL AFFAIRS
(WWW.MASS.GOV/GREEN)

PREPARED BY

**FUSS &
O'NEILL**

1550 MAIN STREET, SUITE 400
SPRINGFIELD, MA 01103
413.452.0445
www.fando.com

PREPARED FOR

CITY OF FITCHBURG
718 MAIN STREET
FITCHBURG, MA 01420

NOT FOR CONSTRUCTION

PROJ. No.: 20200263.D20
DATE: DECEMBER 2024

GI-001



ABREVIATIONS

GENERAL

- ## GENERAL

1. DO NOT IMPEDE ACCESS TO AND FROM THE SITE BY THE PROPERTY OWNER.

13. BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. PERFORM CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
14. DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND STATUTES.

1. THE INSTALLATION AND MAINTENANCE OF EROSION CONTROL DEVICES IS THE RESPONSIBILITY OF THE CONTRACTOR. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL INSTALL EROSION CONTROL DEVICES AS SHOWN ON THE PLANS, OR AS DICTATED BY MADCR AND THE TOWN OF WINDSOR. ALL EROSION CONTROL DEVICES SHALL BE MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT CONSTRUCTION.
2. THE CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL DEVICES AT THE END OF EACH WORKING DAY, AFTER EACH STORM EVENT, AND AT LEAST DAILY DURING PROLONGED RAINFALL. REPAIR OR REPLACEMENT SHOULD BE MADE PROMPTLY AS NEEDED. CLEANOUT OF ACCUMULATED SEDIMENT BEHIND THE SILT FENCE SHALL BE REQUIRED IF ONE-THIRD OF THE ORIGINAL HEIGHT OF THE BALES OR SILT FENCE BECOMES FILLED WITH SEDIMENT.
3. THE CONTRACTOR IS RESPONSIBLE FOR THE TIMELY INSTALLATION, INSPECTION, MAINTENANCE, AND/OR REPLACEMENT OF ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES TO ENSURE PROPER OPERATION THROUGHOUT CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF PERMANENT MEASURES UNTIL CONSTRUCTION OF THE PROJECT IS COMPLETED OR UNTIL IT IS ACCEPTED BY THE CONTRACT OWNER. THE CONTRACT OWNER IS RESPONSIBLE THEREAFTER.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CLEAN ROADS, CONTROL DUST, AND TAKE ALL NECESSARY MEASURES TO ENSURE THAT THE SITE AND ALL ADJACENT ROADS BE MAINTAINED IN A WASH AND DUST-FREE CONDITION AT ALL TIMES THROUGHOUT THE LIFE OF THE CONTRACT. DUST CONTROL SHALL INCLUDE, BUT IS NOT LIMITED TO, WATER AND/OR CRUSHED STONE OR COARSE GRAVEL.
5. THE CONTRACTOR SHALL INSTALL ALL PERIMETER SEDIMENT CONTROL BARRIERS (I.E. SILT FENCE) AS SHOWN ON THE PLANS. A SILT FENCE SHALL ALSO BE INSTALLED AROUND ANY SOIL STOCKPILE AREAS.
6. THE CONTRACTOR SHALL RESTORE AREAS DISTURBED BY CONSTRUCTION, AREAS DAMAGED DURING CONSTRUCTION SHALL BE RESTORED BY PLACING 6" OF LOAM AND RESEEDED OR OTHERWISE RESTORED TO THEIR ORIGINAL STATE AS CLOSELY AS POSSIBLE.
7. TEMPORARY VEGETATIVE COVER SHALL BE APPLIED TO ANY DISTURBED AREAS (INCLUDING SOIL STOCKPILE AREAS) THAT HAVE NOT YET REACHED FINISHED GRADE AS SOON AS POSSIBLE, BUT NOT LATER THAN THE FOURTH MONTH OF CONSTRUCTION. VEGETATION SHALL BE APPLIED AS TEMPORARILY CEASED, UNLESS THE ACTIVITY IS TO RESUME WITHIN TWENTY-ONE (21) DAYS. THE RECOMMENDED TEMPORARY SEEDING DATES ARE MARCH 15 TO NOVEMBER 15 WITH APPROVAL OF THE ENGINEER.

$$1'' = 200'$$

1. AERIAL IMAGERY OBTAINED FROM NEARMAP LTD. VERTICAL ORTHOGONAL IMAGERY (OCTOBER 2021)



No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
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GRAPHIC SCALE

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www.fando.com

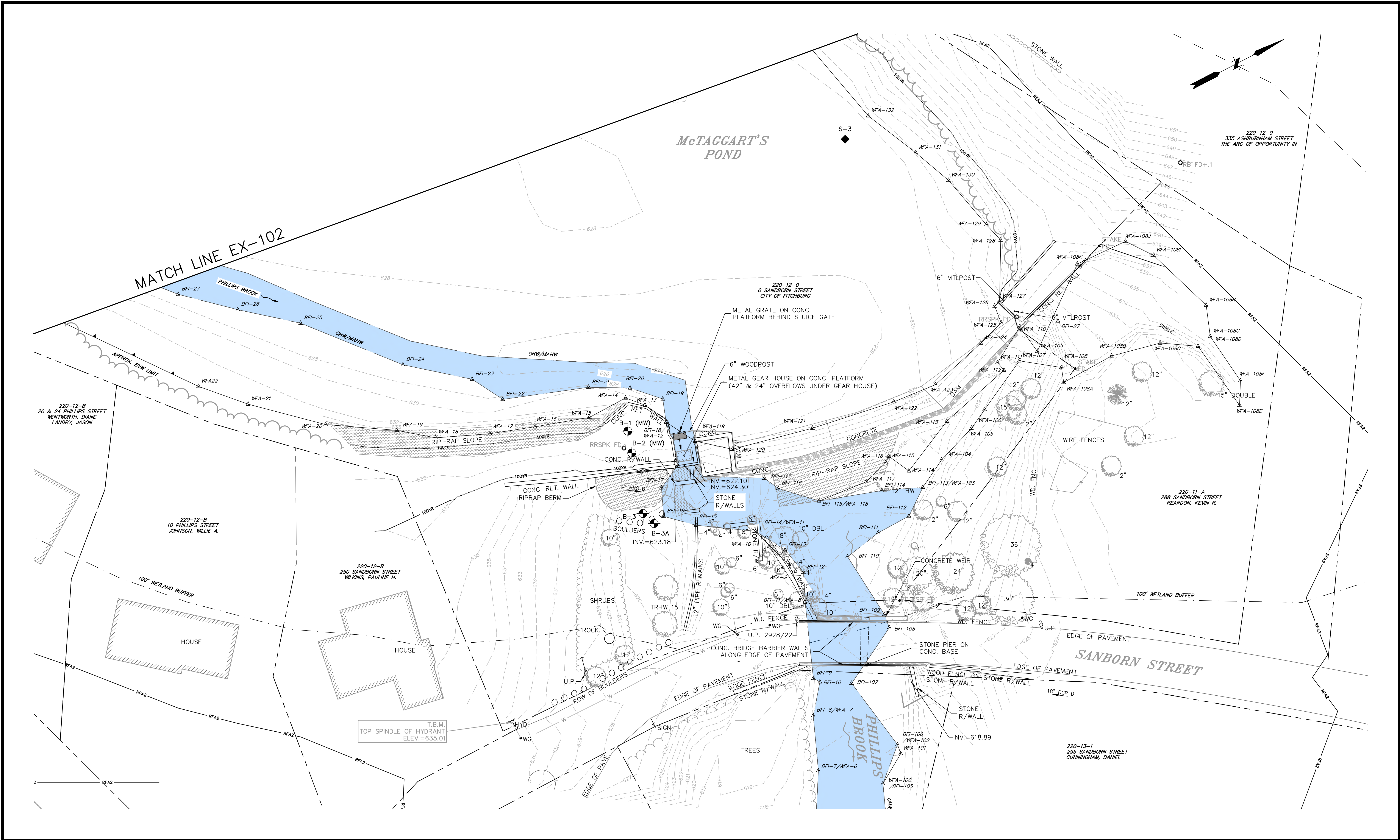
FITCHBURG

MASSACHUSETTS

DATE: DECEMBER 2024

GI-002

File Path: J:\DWG\2020\20200263.D20_Civil\Plan\20200263.D20_EXC01.dwg Layout: EX-101 Plotted: Wed, December 11, 2024 - 4:39 PM User: sam.huffman
MS VIEW: Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION) PC3 CTB File: FO.STB



No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

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SCALE:
HORIZ.: 1" = 20'
VERT.:
DATUM:
HORIZ.: NAD83
VERT.: NAVD88
20 10 0 20
GRAPHIC SCALE

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CITY OF FITCHBURG
EXISTING CONDITIONS PLAN 1
MCTAGGART'S POND DAM REMOVAL AND
PHILLIPS BROOK RESTORATION PROJECT
FITCHBURG MASSACHUSETTS

PROJ. No.: 20200263.D20
DATE: DECEMBER 2024
EX-101



NOT FOR CONSTRUCTION

CITY OF FITCHBURG

EXISTING CONDITIONS PLAN 2

MCTAGGART'S POND DAM REMOVAL AND
PHILLIPS BROOK RESTORATION PROJECT

FITCHBURG MASSACHUSETTS

PROJ. No.: 20200263.D20
DATE: DECEMBER 2024
EX-102

1. SALVAGE A MINIMUM OF 3 TREES WITH 15' ROOTWAD FANS AND MINIMUM 10' LONG, 10" DIAMETER TRUNKS FOR ROOTWAD REVETMENT. SALVAGE A MINIMUM OF 3, 15' LONG, 6" DIAMETER TRUNKS FOR FOOTER LOGS.
2. SALVAGE STONE ARMOR FOR REUSE IN THE PROPOSED RIFFLES, POOLS, AND ROOTWAD REVETMENT.



No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

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HORZ.: 1" = 20'

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HORIZ.: NAD83

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GRAPHIC SCALE

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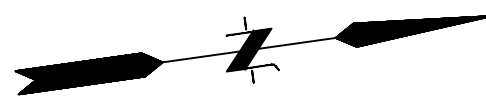
FITCHBURG

MASSACHUSETTS

PROJ. No.: 20200263.D20

DATE: DECEMBER 2024

CE-101



— APPROXIMATE TREE LINE BASED ON FIELD OBSERVATIONS
AND REVIEW OF NEARMAP LTD. VERTICAL ORTHOGONAL
IMAGERY (OCTOBER 2021)

R&S TOP 12" OF NATIVE SEED BANK MATERIAL
UPGRADIENT FROM THE OHW/MAHW MARK

220-12-0
0 SANDBORN STREET
CITY OF FITCHBURG

220-12-0
335 ASHBURNHAM STREET
THE ARC OF OPPORTUNITY IN

220-12-B
20 & 24 PHILLIPS
STREET WENTWORTH,
DIANE
LANDRY, JASON

APPROXIMATE LIMIT OF SEDIMENT REPOSITION
ZONE, SEE SHEETS CS-105 AND CS-106

MATCH LINE CE-101

NOT FOR CONSTRUCTION

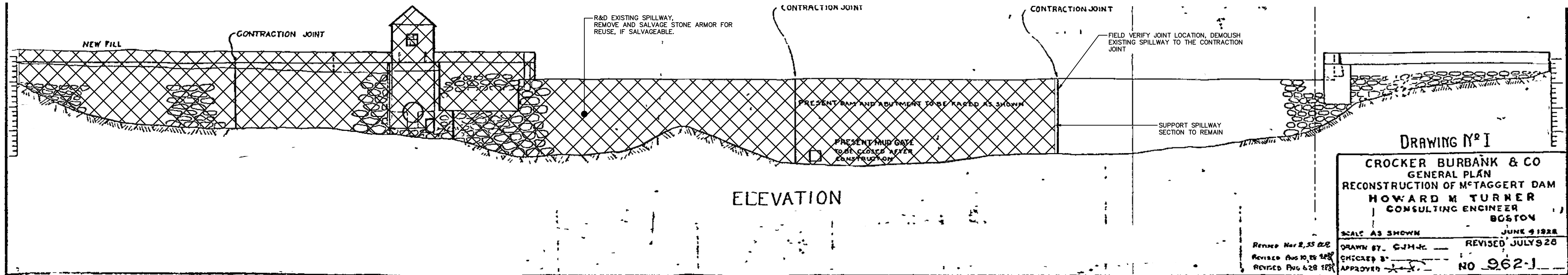
GRAPHIC SCALE

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MASSACHUSETTS

CE-102

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MS VIEW: LAYER STATE: Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION) PC3 CTB File: FO.STB



McTAGGARTS POND DAM FIGURE B-2

D DAM DEMOLITION SECTION
NOT TO SCALE

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

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NOT FOR CONSTRUCTION

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GRAPHIC SCALE

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CITY OF FITCHBURG

DEMOLITION SECTION

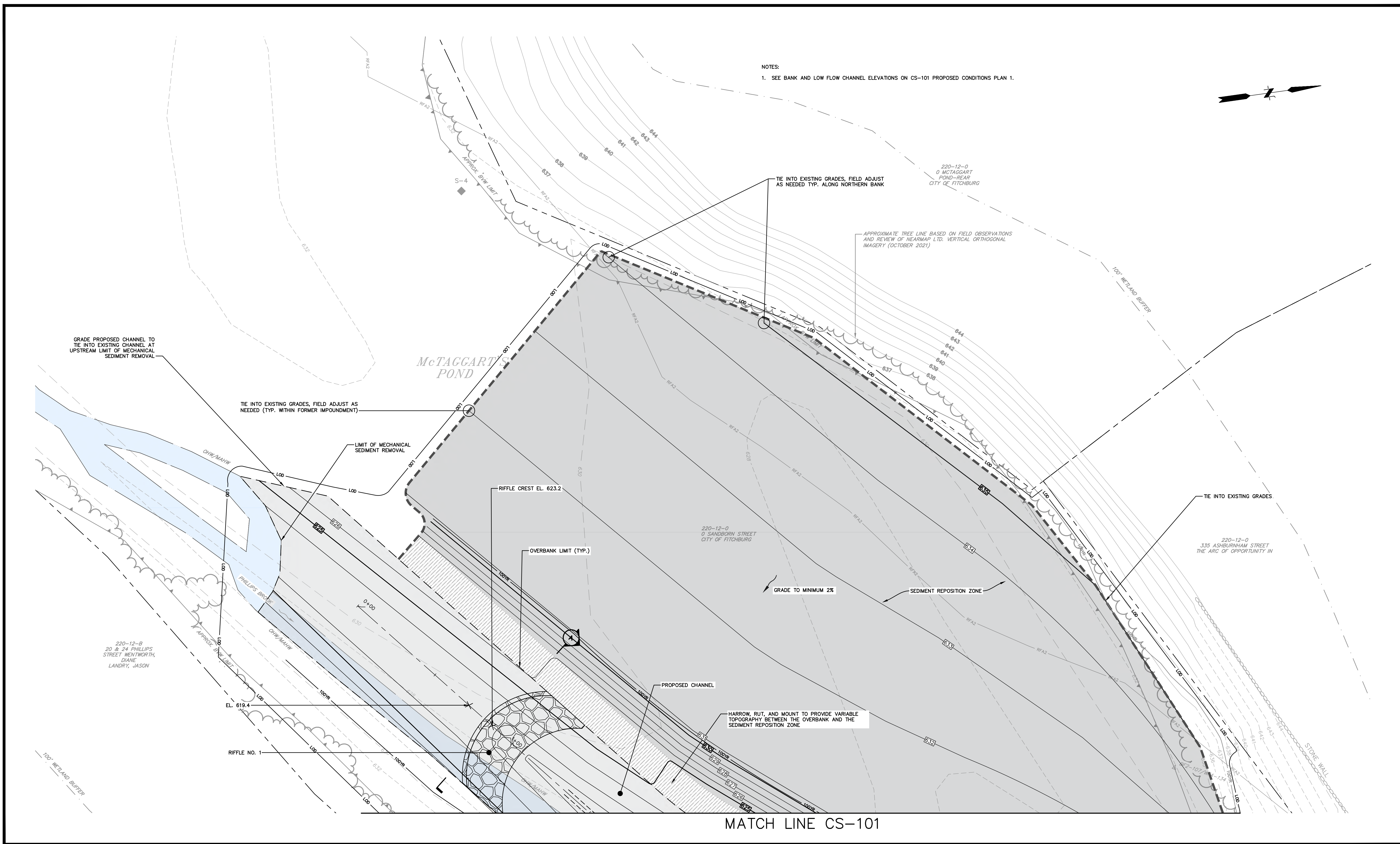
MCTAGGART'S POND DAM REMOVAL AND
PHILLIPS BROOK RESTORATION PROJECT

FITCHBURG MASSACHUSETTS

PROJ. No.: 20200263.D20

DATE: DECEMBER 2024

CE-103

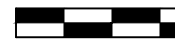


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VERT.:	NAVD88
	
GRAPHIC SCALE	

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CITY OF FITCHBURG

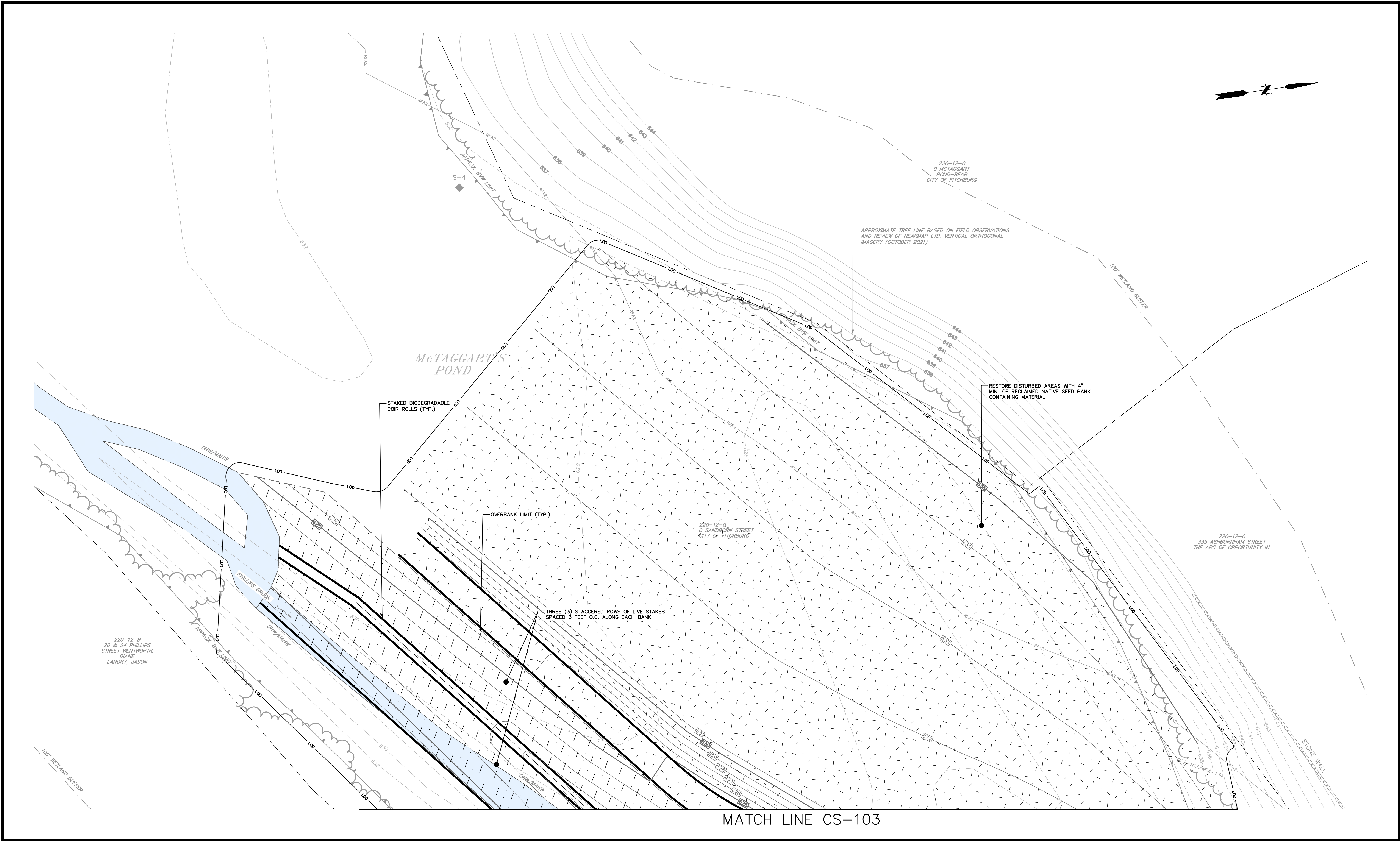
PROPOSED CONDITIONS PLAN 2

MCTAGGART'S POND DAM REMOVAL AND
PHILLIPS BROOK RESTORATION PROJECT

FITCHBURG MASSACHUSETTS

PROJ. No.: 20200263.D20
DATE: DECEMBER 2024
CS-102

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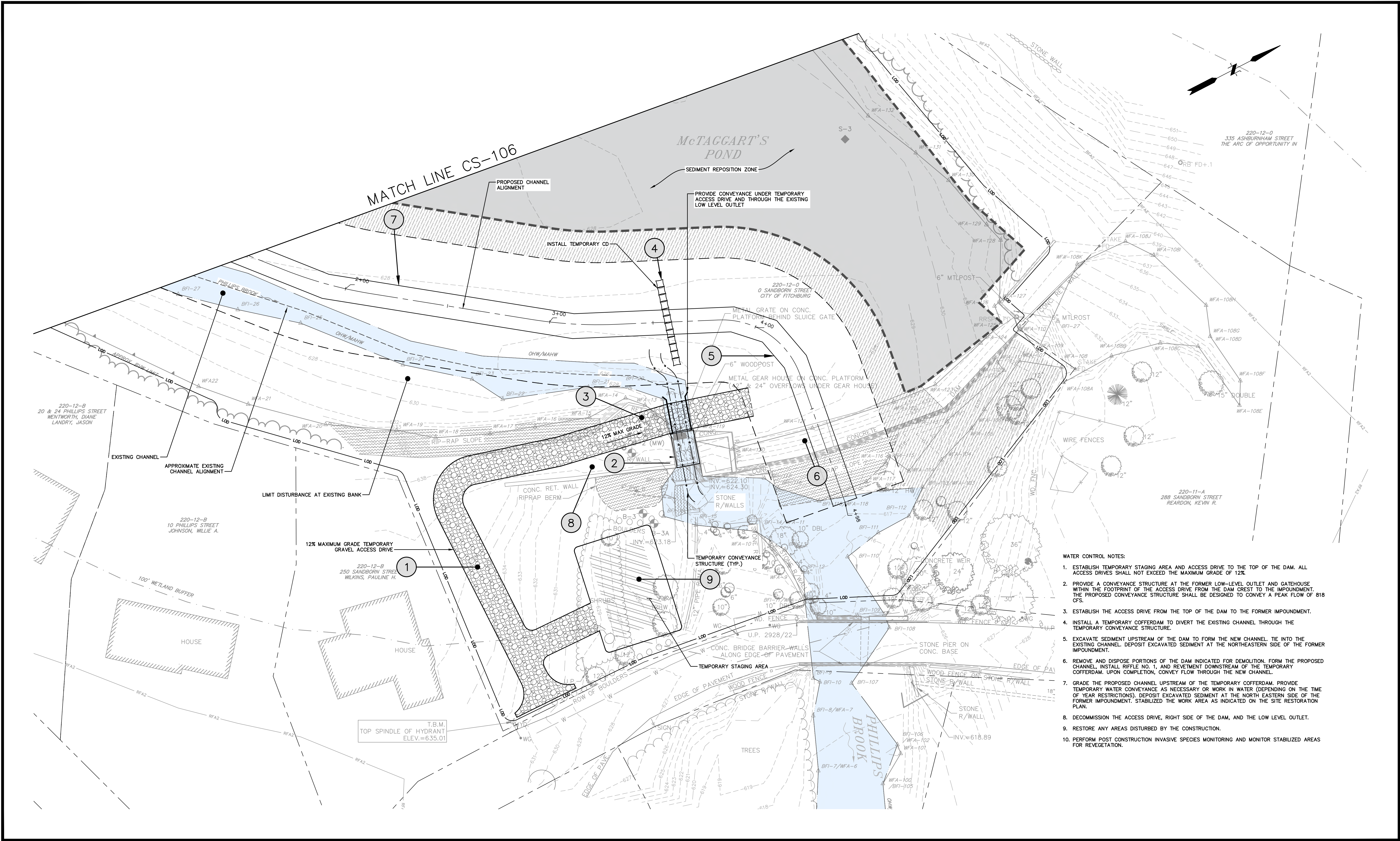
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HORZ.: NAD83
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GRAPHIC SCALE

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CITY OF FITCHBURG
SITE RESTORATION PLAN 2
MCTAGGART'S POND DAM REMOVAL AND
PHILLIPS BROOK RESTORATION PROJECT
FITCHBURG MASSACHUSETTS

PROJ. No.: 20200263.D20
DATE: DECEMBER 2024
CS-104

File Path: J:\DWG\2020\0263\0263.D20\CivilPlan\20200263.D20_STP01.dwg Layout: CS-105 Plotted: Wed, December 11, 2024 - 4:41 PM User: sam.huffman
MS VIEW: LAYER STATE: PLOTTER: NONE CTB FILE: FQ.STB



- WATER CONTROL NOTES:
1. ESTABLISH TEMPORARY STAGING AREA AND ACCESS DRIVE TO THE TOP OF THE DAM. ALL ACCESS DRIVES SHALL NOT EXCEED THE MAXIMUM GRADE OF 12%.
 2. PROVIDE A CONVEYANCE STRUCTURE AT THE FORMER LOW-LEVEL OUTLET AND GATEHOUSE. WITHIN THE FOOTPRINT OF THE ACCESS DRIVE FROM THE DAM CREST TO THE IMPOUNDMENT, THE PROPOSED CONVEYANCE STRUCTURE SHALL BE DESIGNED TO CONVEY A PEAK FLOW OF 818 CFS.
 3. ESTABLISH THE ACCESS DRIVE FROM THE TOP OF THE DAM TO THE FORMER IMPOUNDMENT.
 4. INSTALL A TEMPORARY COFFERDAM TO DIVERT THE EXISTING CHANNEL THROUGH THE TEMPORARY CONVEYANCE STRUCTURE.
 5. EXCAVATE SEDIMENT UPSTREAM OF THE DAM TO FORM THE NEW CHANNEL. DE INTO THE EXISTING CHANNEL. DEPOSIT EXCAVATED SEDIMENT AT THE NORTHEASTERN SIDE OF THE FORMER IMPOUNDMENT.
 6. REMOVE AND DISPOSE PORTIONS OF THE DAM INDICATED FOR DEMOLITION. FORM THE PROPOSED CHANNEL, INSTALL RIFFLE NO. 1, AND REVETMENT DOWNSTREAM OF THE TEMPORARY COFFERDAM. UPON COMPLETION, CONVEY FLOW THROUGH THE NEW CHANNEL.
 7. GRADE THE PROPOSED CHANNEL UPSTREAM OF THE TEMPORARY COFFERDAM. PROVIDE TEMPORARY WATER CONVEYANCE AS NECESSARY OR WORK IN WATER (DEPENDENT ON THE TIME OF YEAR RESTRICTIONS). DEPOSIT EXCAVATED SEDIMENT AT THE NORTH EASTERN SIDE OF THE FORMER IMPOUNDMENT. STABILIZED THE WORK AREA AS INDICATED ON THE SITE RESTORATION PLAN.
 8. DECOMMISSION THE ACCESS DRIVE, RIGHT SIDE OF THE DAM, AND THE LOW LEVEL OUTLET.
 9. RESTORE ANY AREAS DISTURBED BY THE CONSTRUCTION.
 10. PERFORM POST CONSTRUCTION INVASIVE SPECIES MONITORING AND MONITOR STABILIZED AREAS FOR REVEGETATION.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

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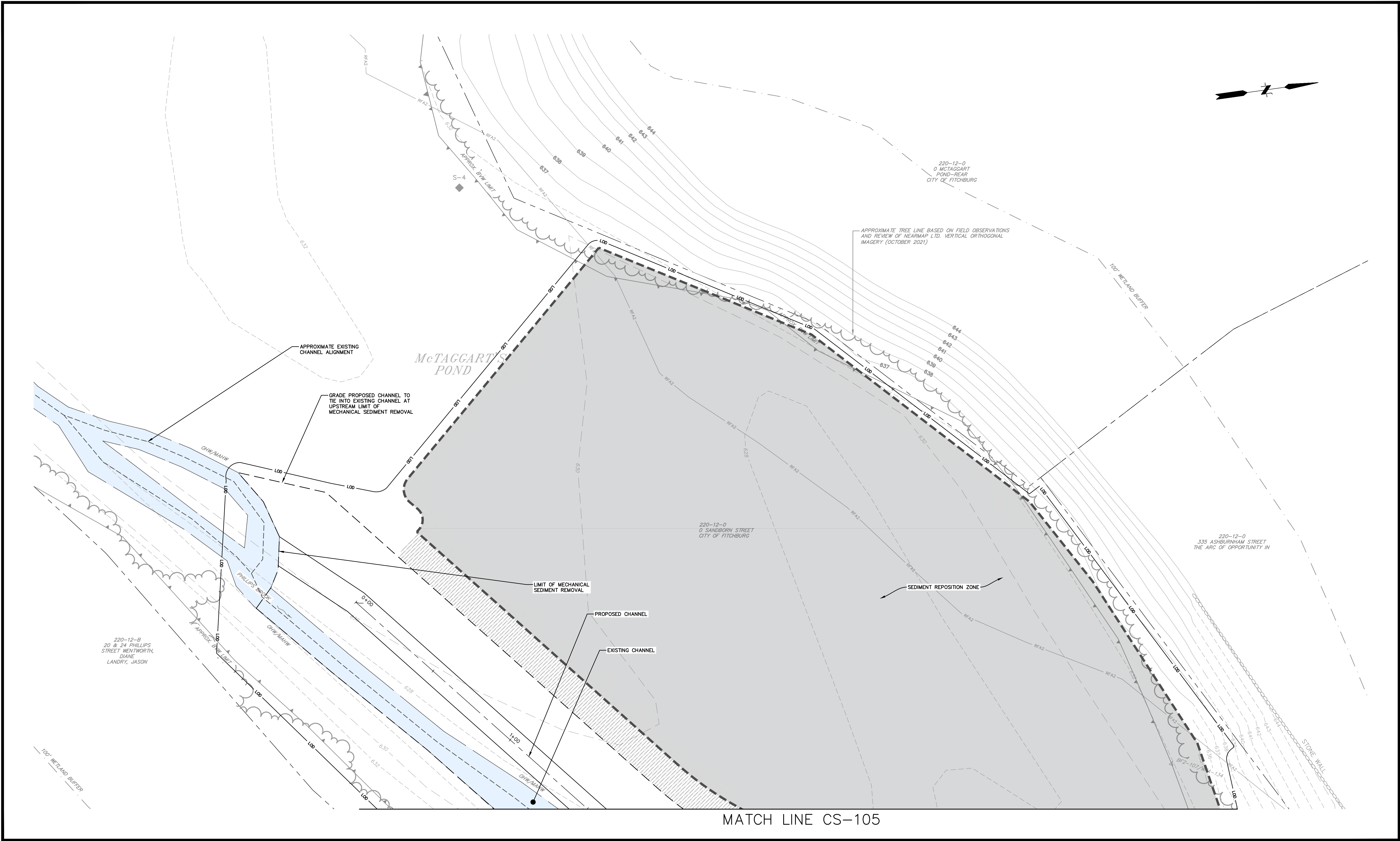
SCALE:
HORIZ.: 1" = 20'
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DATUM:
HORIZ.: NAD83
VERT.: NAVD88
GRAPHIC SCALE

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CITY OF FITCHBURG
CONSTRUCTION PHASING AND WATER
CONTROL PLAN 1
MCTAGGART'S POND DAM REMOVAL AND
PHILLIPS BROOK RESTORATION PROJECT
FITCHBURG MASSACHUSETTS

PROJ. No.: 20200263.D20
DATE: DECEMBER 2024
CS-105

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No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

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GRAPHIC SCALE

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CITY OF FITCHBURG
CONSTRUCTION PHASING AND WATER CONTROL PLAN 2
MCTAGGART'S POND DAM REMOVAL AND PHILLIPS BROOK RESTORATION PROJECT
FITCHBURG MASSACHUSETTS

PROJ. No.: 20200263.D20
DATE: DECEMBER 2024
CS-106

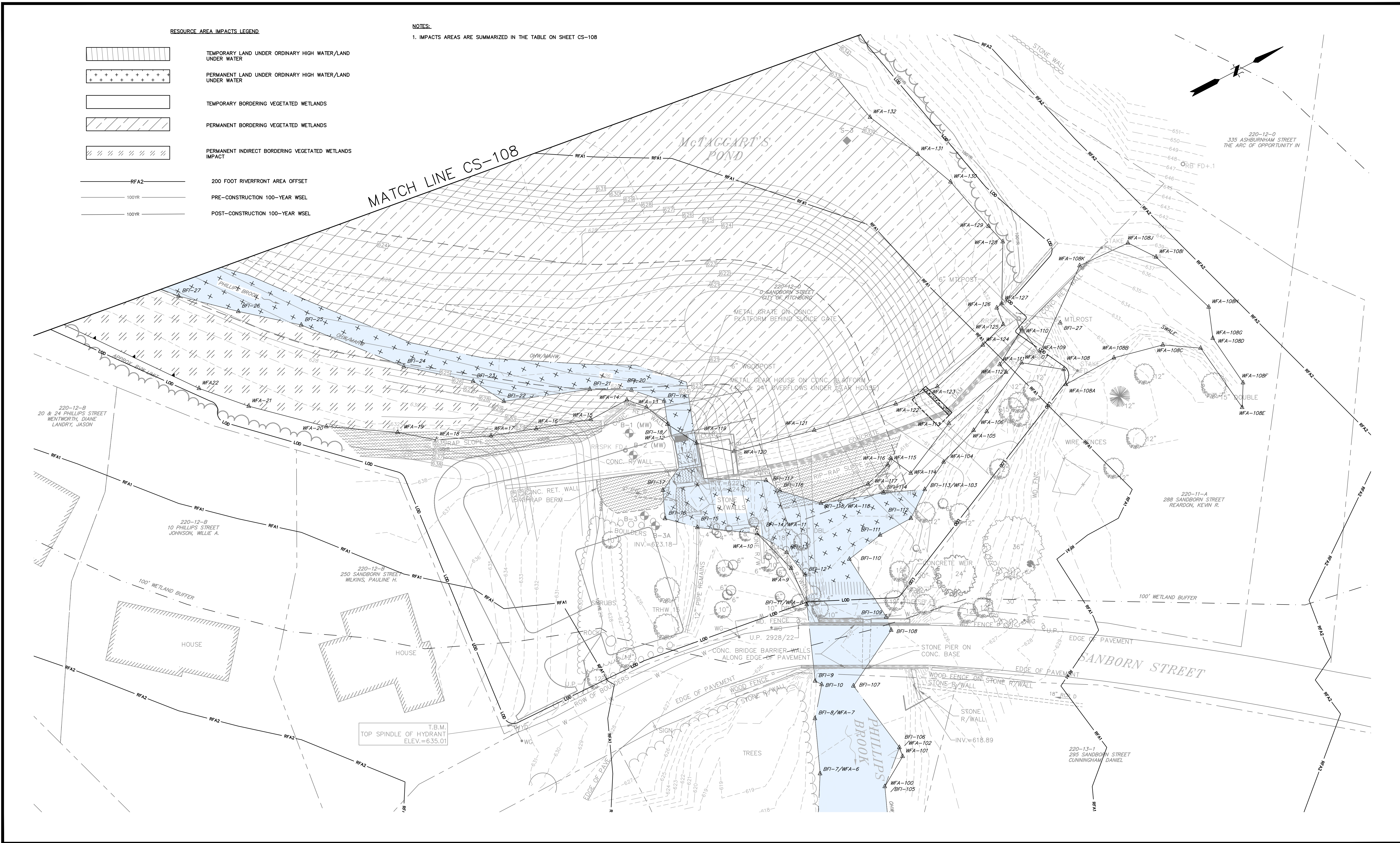
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MS VIEW: LAYER STATE: Plotter: NONE CTB File: FQ.STB

RESOURCE AREA IMPACTS LEGEND

	TEMPORARY LAND UNDER ORDINARY HIGH WATER/LAND UNDER WATER
	PERMANENT LAND UNDER ORDINARY HIGH WATER/LAND UNDER WATER
	TEMPORARY BORDERING VEGETATED WETLANDS
	PERMANENT BORDERING VEGETATED WETLANDS
	PERMANENT INDIRECT BORDERING VEGETATED WETLANDS IMPACT
	200 FOOT RIVERFRONT AREA OFFSET
	PRE-CONSTRUCTION 100-YEAR WSEL
	POST-CONSTRUCTION 100-YEAR WSEL

NOTES:

1. IMPACTS AREAS ARE SUMMARIZED IN THE TABLE ON SHEET CS-108



No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

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	VERT.: 1" = 20'
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	VERT.: NAVD88
GRAPHIC SCALE	

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CITY OF FITCHBURG

RESOURCE IMPACT AREA PLAN 1

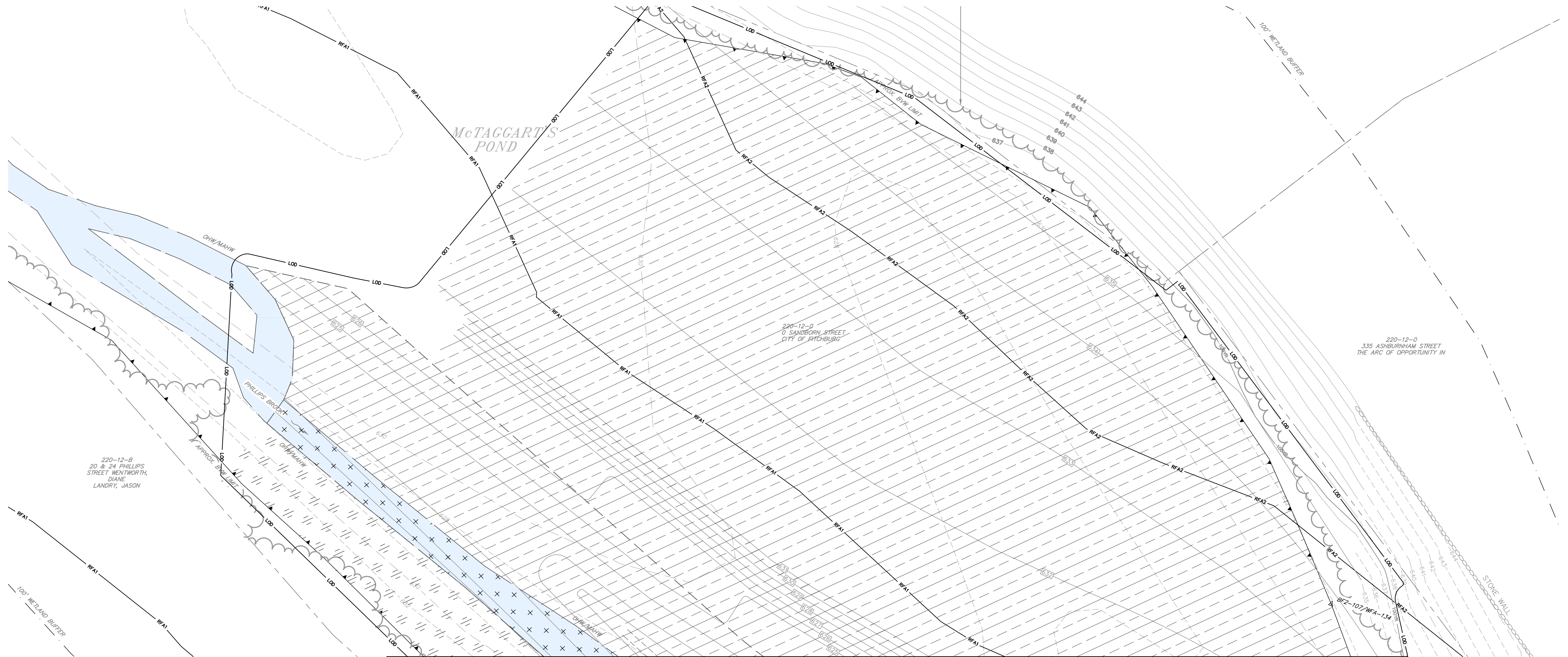
MCTAGGART'S POND DAM REMOVAL AND
PHILLIPS BROOK RESTORATION PROJECT

FITCHBURG MASSACHUSETTS

PROJ. No.: 2020263.D20
DATE: DECEMBER 2024

CS-107

RESOURCE AREA	PROJECT AREA	TEMPORARY IMPACT (SF)	PERMANENT IMPACT (SF)	REPLACEMENT (SF)	RESOURCE AREA	PROJECT AREA	TEMPORARY IMPACT (SF)	PERMANENT IMPACT (SF)	REPLACEMENT (SF)	RESOURCE AREA	PROJECT AREA	TEMPORARY IMPACT (SF)	PERMANENT IMPACT (SF)	RESTORED (SF)	MATERIAL DREDGE	STABLE CHANNEL (WITHIN OHW/MAHW MARK)	500 CY
LAND UNDER ORDINARY HIGH WATER/LAND UNDER WATER	UPSTREAM CHANNEL	0	5,646	30,461	RFA 0-100	UPSTREAM CHANNEL	0	58,932	22,103	BORDERING LAND SUBJECT TO FLOODING (BLSF)	UPSTREAM CHANNEL	0	5,667	104,923	TEMPORARY DISCHARGE TO LUW	DOWNSTREAM CHANNEL (CHECK DAM)	20 CY
	SEDIMENT REPOSITION ZONE	0	0	0		SEDIMENT REPOSITION ZONE	0	9,842	43,370		SEDIMENT REPOSITION ZONE	0	0	0	DISCHARGE TO WETLAND	SEDIMENT REPOSITION ZONE	7,470 CY
	DAM AND CONSTRUCTION ACCESS	0	880	0		DAM AND CONSTRUCTION ACCESS	5,748	0	2,871		DAM AND CONSTRUCTION ACCESS	0	0	0	TEMPORARY DISCHARGE TO BYW	UPSTREAM CHANNEL (COFFERDAM)	12 CY
	DOWNSTREAM CHANNEL	180	2,810	4,231		DOWNSTREAM CHANNEL	0	15,158	14,048		DOWNSTREAM CHANNEL	0	6,153	7,983	LIMIT OF DISTURBANCE	GENERAL PROJECT AREA	3.94 ACRES
	TOTAL	180	9,336	34,692		TOTAL	5,748	83,932	82,392		TOTAL	0	11,820	112,906			
BORDERING VEGETATED WETLANDS (BVW)	UPSTREAM CHANNEL	0	54,018	7,467	RFA 100-200	UPSTREAM CHANNEL	0	0	0	INLAND BANK	UPSTREAM CHANNEL	0	925 LF	1033 LF			
	SEDIMENT REPOSITION ZONE	0	69,645	0		SEDIMENT REPOSITION ZONE	0	49,835	36,660		DAM	0	64 LF	29 LF			
	DAM AND CONSTRUCTION ACCESS	0	0	0		DAM AND CONSTRUCTION ACCESS	0	2,881	0		DOWNSTREAM CHANNEL	0	305 LF	136 LF			
	DOWNSTREAM CHANNEL	0	1,137	2,399		DOWNSTREAM CHANNEL	0	554	0		TOTAL	0	1294 LF	1198 LF			
	TOTAL	0	124,800	9,866		TOTAL	0	53,270	36660								
					TOTAL RIVERFRONT AREA	WITHIN LIMIT OF DISTURBANCE	0.9 ACRES										



No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SCALE:	HORZ.: 1" = 20'
	VERT.:
DATUM:	HORZ.: NAD83
	VERT.: NAVD88
	
GRAPHIC SCALE	

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CITY OF FITCHBURG

RESOURCE IMPACT AREA PLAN 2

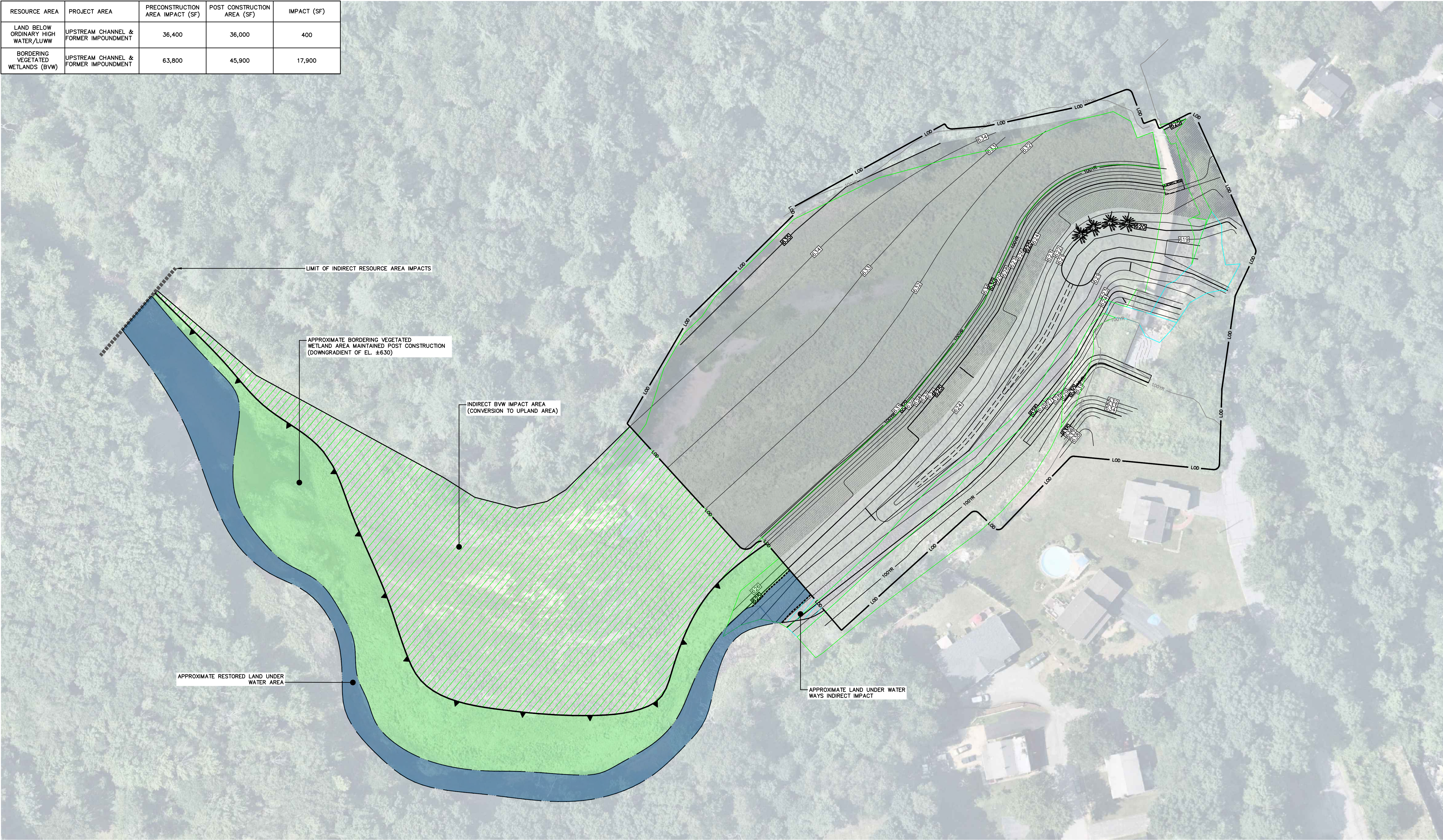
MCTAGGART'S POND DAM REMOVAL AND
PHILLIPS BROOK RESTORATION PROJECT

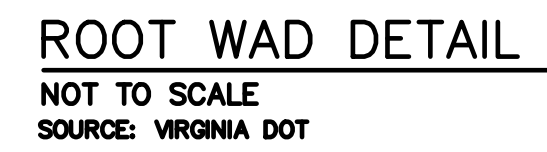
FITCHBURG MASSACHUSETTS

CS-108

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MS VIEW: LAYER STATE: Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION) PC3 CTB File: FO.STB

INDIRECT IMPACTS				
RESOURCE AREA	PROJECT AREA	PRECONSTRUCTION AREA IMPACT (SF)	POST CONSTRUCTION AREA (SF)	IMPACT (SF)
LAND BELOW ORDINARY HIGH WATER/LUWW	UPSTREAM CHANNEL & FORMER IMPOUNDMENT	36,400	36,000	400
BORDERING VEGETATED WETLANDS (BVW)	UPSTREAM CHANNEL & FORMER IMPOUNDMENT	63,800	45,900	17,900





1. IF THE SALVAGEABLE BANK SEED CONTAINING SOIL IS INSUFFICIENT TO RESTORE DISTURBED AREAS, PROVIDE 4 INCHES OF LOAM AND SEED WITH NEW ENGLAND EROSION CONTROL MAT FOR DETENTION BASINS AND MOIST SITES
2. LIVE STAKES SHALL BE DWARF WILLOW OR SALIX COTTETII
3. COIR ROLLS SHALL BE SECURED WITH 2" BY 2" WOODEN STAKES DRIVEN THROUGH THE CENTER OF THE ROLL AT 2' O/C. STAKING DEPTH SHALL BE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
4. WATER SURFACE ELEVATIONS ARE POST CONSTRUCTION.

SEAL	SEAL
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NOT FOR CONSTRUCTION

SCALE:	HORZ.: VARIES
	VERT.: VARIES
DATUM:	HORZ.: NAD83
	VERT.: NAVD88
	
GRAPHIC SCALE	

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CITY OF FITCHBURG

CHANNEL PROFILE AND DETAILS

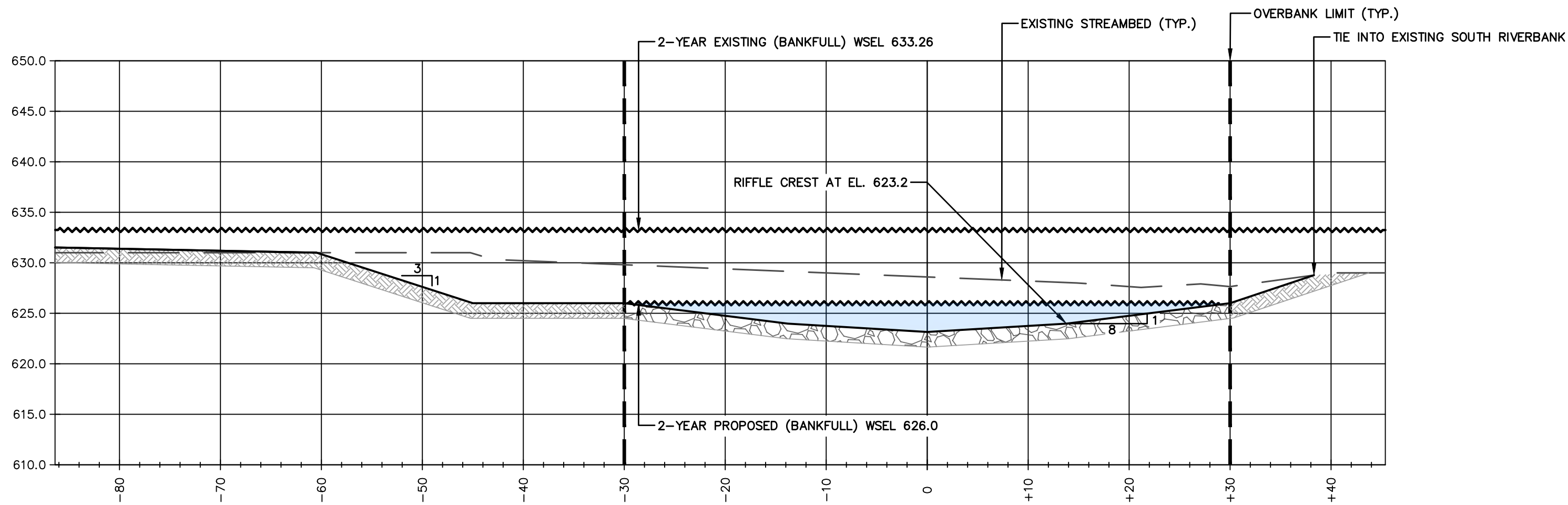
MCTAGGART'S POND DAM REMOVAL AND
PHILLIPS BROOK RESTORATION PROJECT

FITCHBURG	MASSACHUSETTS
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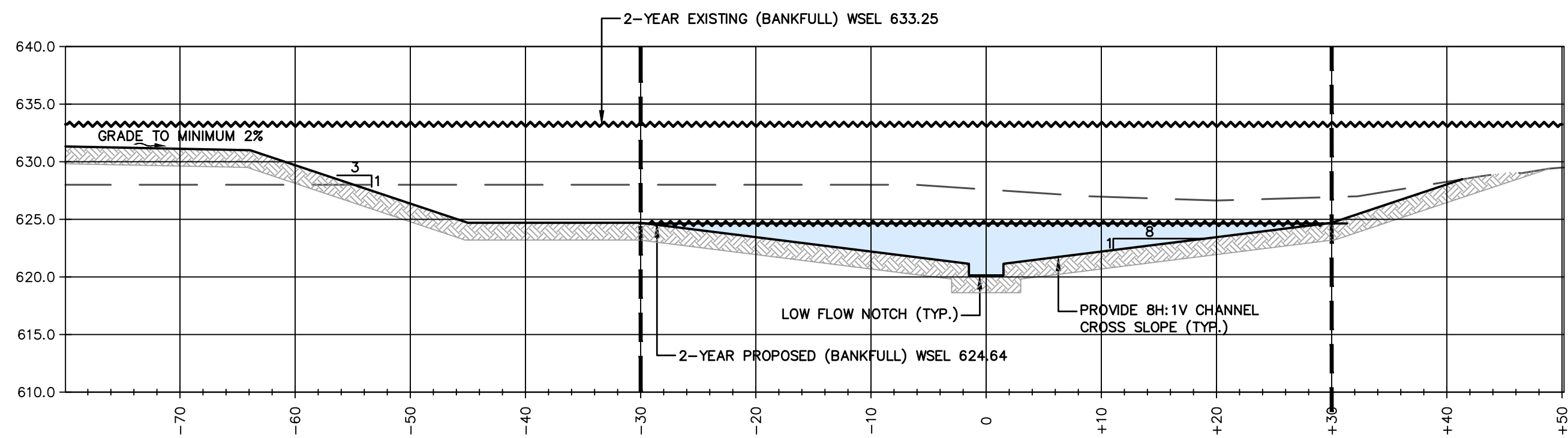
ROJ. No.: 20200263.D20
DATE: DECEMBER 2024

CX-101

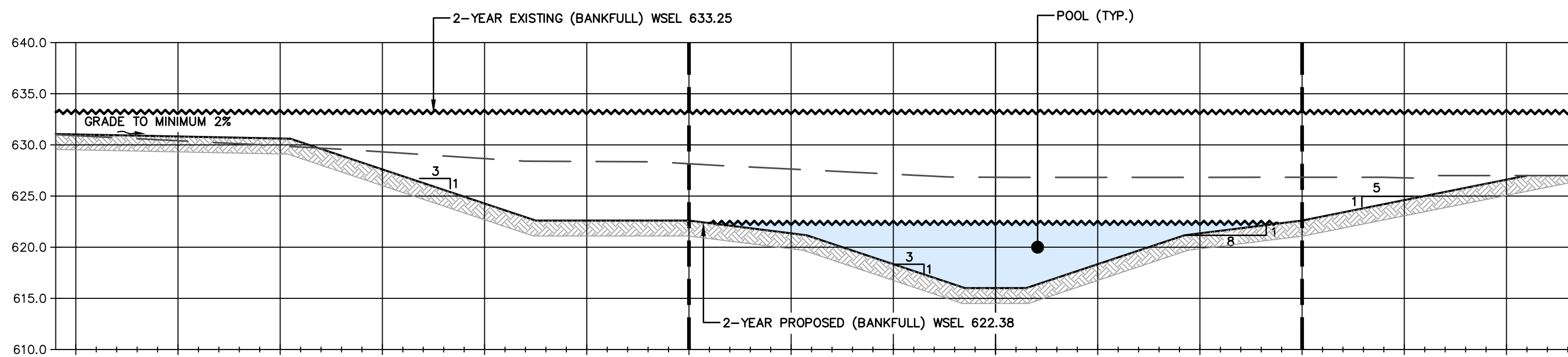
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MS VIEW: LAYER STATE: Plotter: NONE CTB File: F0.STB



A CHANNEL CROSS SECTION
HORIZ.: 1"=10' VERT.: 1"=10'

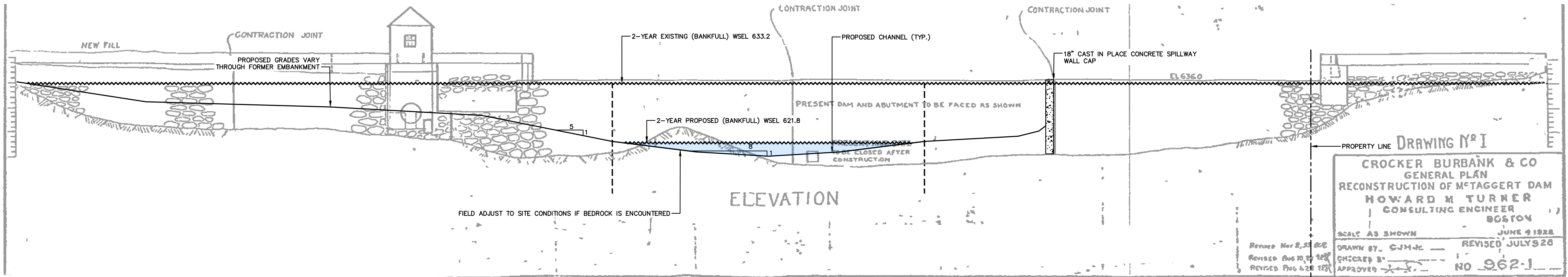


B CHANNEL CROSS SECTION
HORIZ.: 1"=10' VERT.: 1"=10'



C CHANNEL CROSS SECTION
HORIZ.: 1"=10' VERT.: 1"=10'

- NOTES:
- CROSS SECTION D WAS INTERPOLATED BASED OFF THE PROPOSED CHANNEL CONDITIONS AT THE DAM. HISTORICAL DRAWINGS ARE NOT TO SCALE. THIS CROSS SECTION SHOULD BE USED AS A REFERENCE ONLY. THE CONTRACTOR SHALL FIELD VERIFY SITE CONDITIONS.
 - THE ELEVATIONS PROVIDED IN THE HISTORICAL DRAWINGS BELOW REFERENCE AN UNKNOWN DATUM.



D DAM CROSS SECTION
NOT TO SCALE

Drawing N^o 1
CROCKER BURBANK & CO
GENERAL PLAN
RECONSTRUCTION OF MCTAGGART DAM
HOWARD M. TURNER
CONSULTING ENGINEER
BOSTON
SCALE AS SHOWN
JUNE 9 1928
DRAWN BY: G.M.H.C.
CHECKED BY: G.M.H.C.
APPROVED BY: G.M.H.C.
REVISED JULY 9 1928
NO. 962-J
McTAGGART'S POND DAM
FIGURE B-2

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

NOT FOR CONSTRUCTION

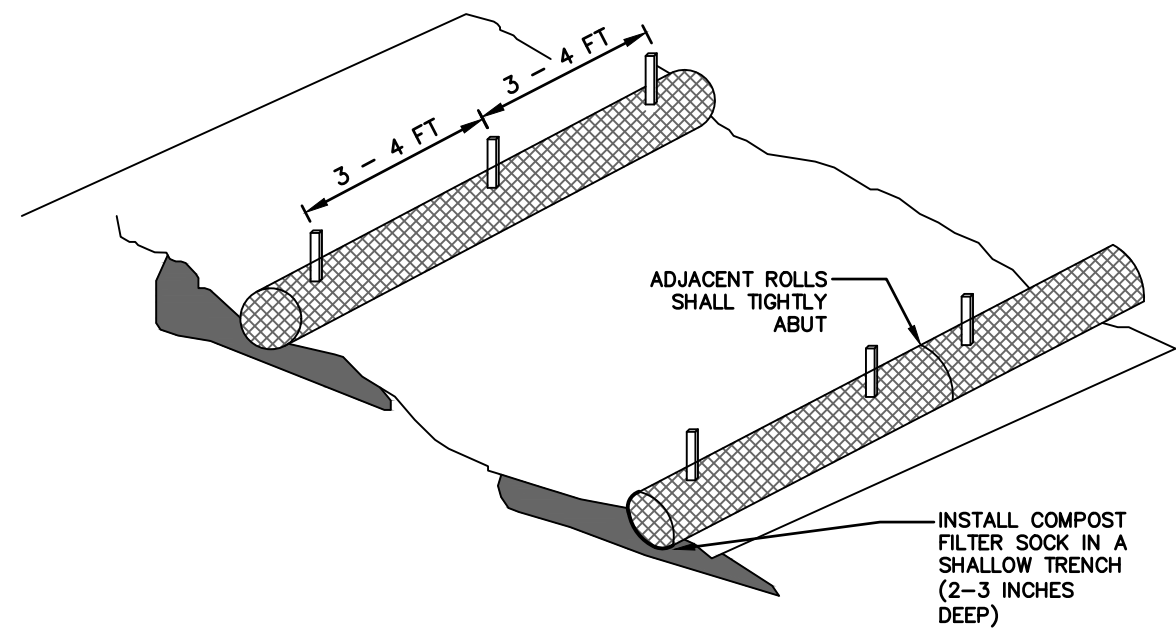
SCALE:
HORIZ.: VARIES
VERT.: VARIES
DATUM:
HORIZ.: NAD83
VERT.: NAVD88
GRAPHIC SCALE

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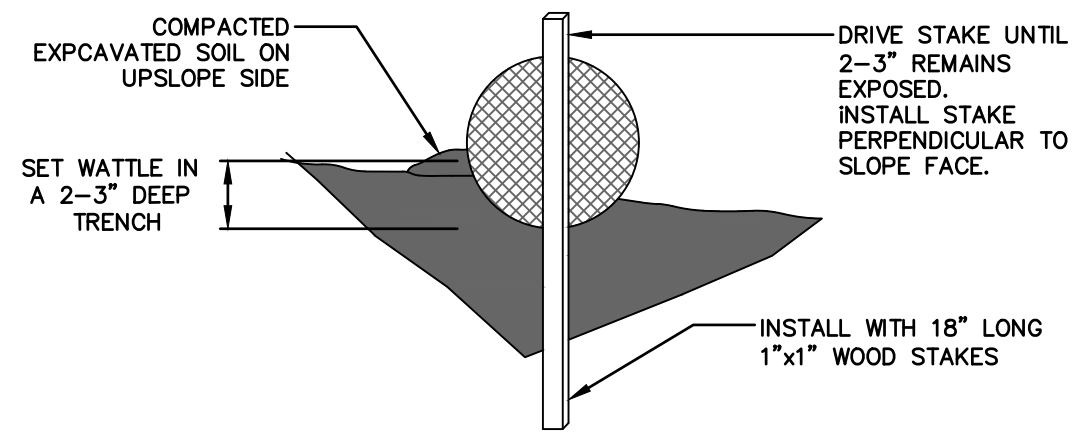
CITY OF FITCHBURG
PROPOSED CROSS SECTIONS
MCTAGGART'S POND DAM REMOVAL AND
PHILLIPS BROOK RESTORATION PROJECT
FITCHBURG MASSACHUSETTS

PROJ. No.: 20200263.D20
DATE: DECEMBER 2024
CX-102

File Path: J:\DWG\2020\2020263.D20\CivilDetails\2020263.D20 DET01.dwg Layout: CD-501 User: sam.huffman
MS VIEW: Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION) PC3 CTB File: FO.STB



TYPICAL WATTLE INSTALLATION GUIDE



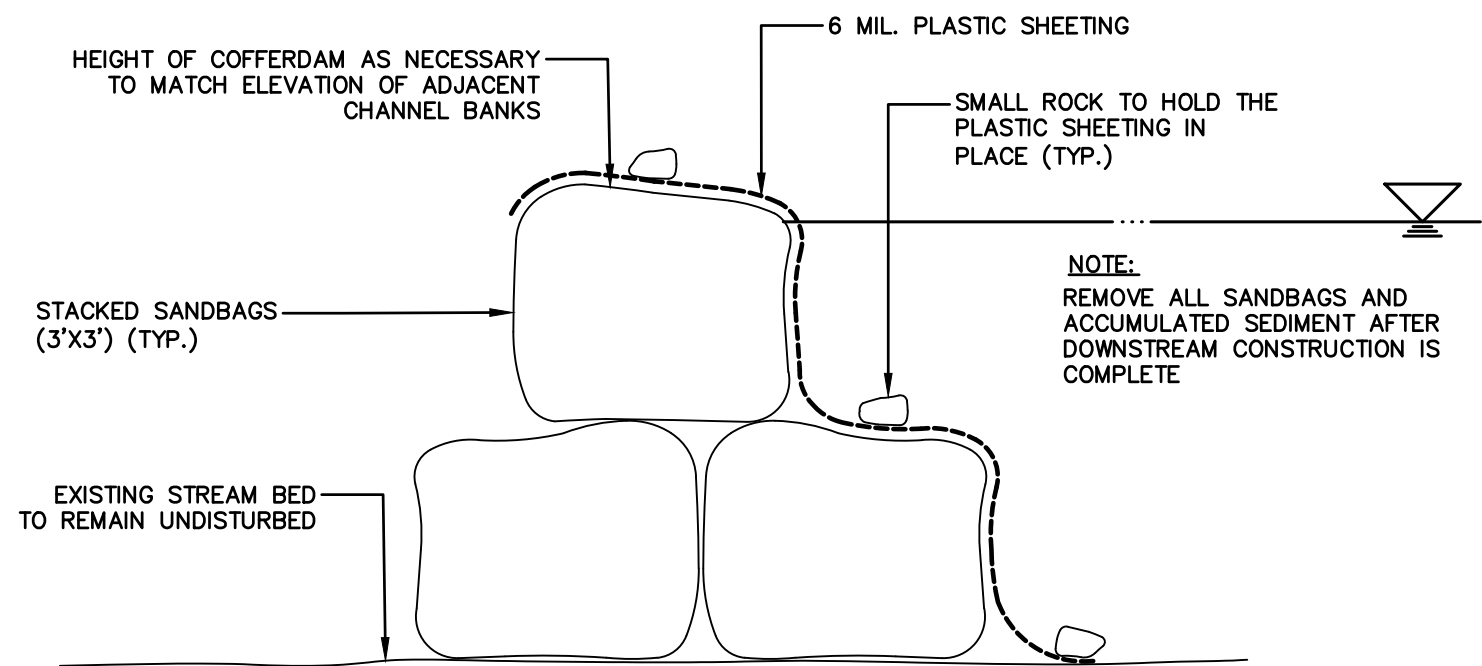
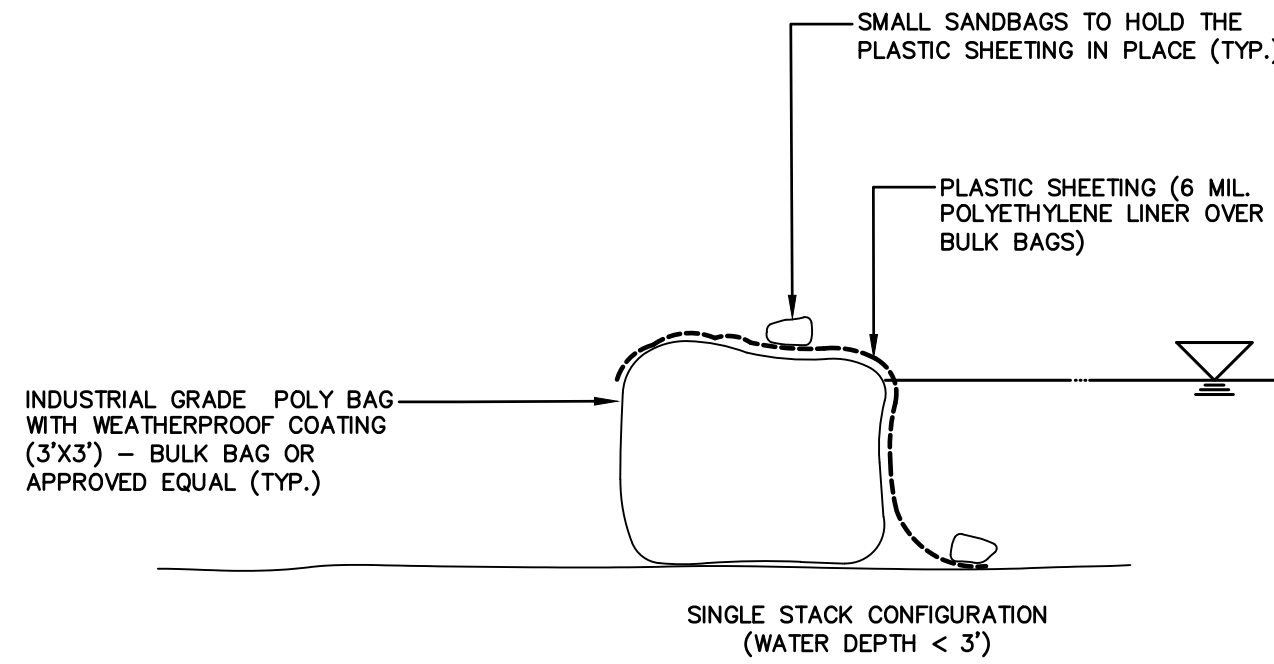
ENTRENCHMENT

NOTES:

1. WATTLES SHALL BE INSTALLED AT LOCATIONS AS INDICATED ON THE DRAWINGS.
2. WATTLES SHALL BE TRENCHED APPROXIMATE 2-3 INCHES AND STAKED SUCH THAT WATTLES DIRECTLY CONTACT SOIL AND PRECLUDE UNDERMINING OR BLOWOUTS. THE TRENCH SHALL BE APPROXIMATELY 9 INCHES WIDE. STAKES SHALL BE DRIVEN THROUGH THE CENTER OF THE WATTLE AT A SPACING OF 3-4 FEET ON CENTER.
3. AND NO GREATER THAN 6\"/>

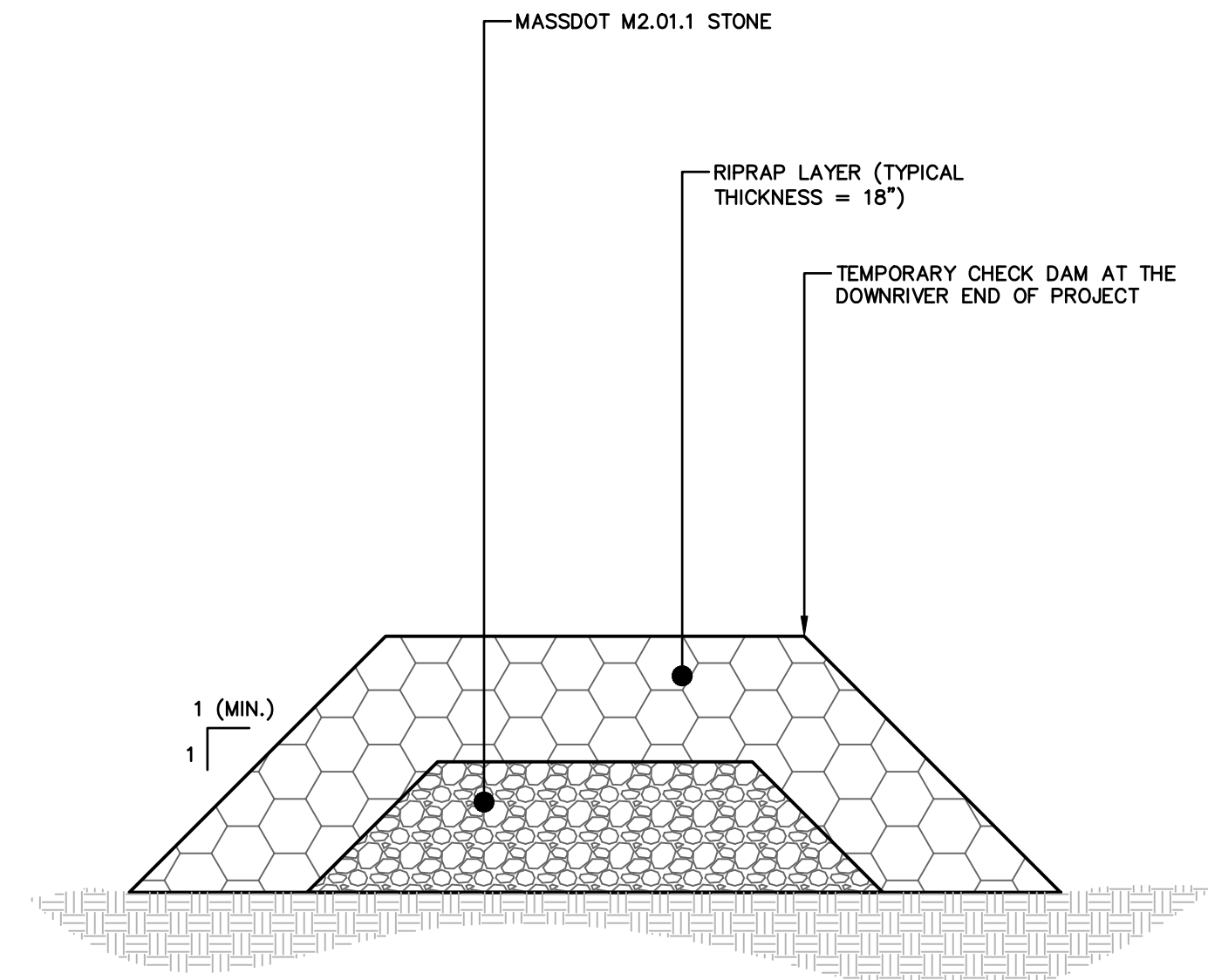
STRAW WATTLES

NOT TO SCALE



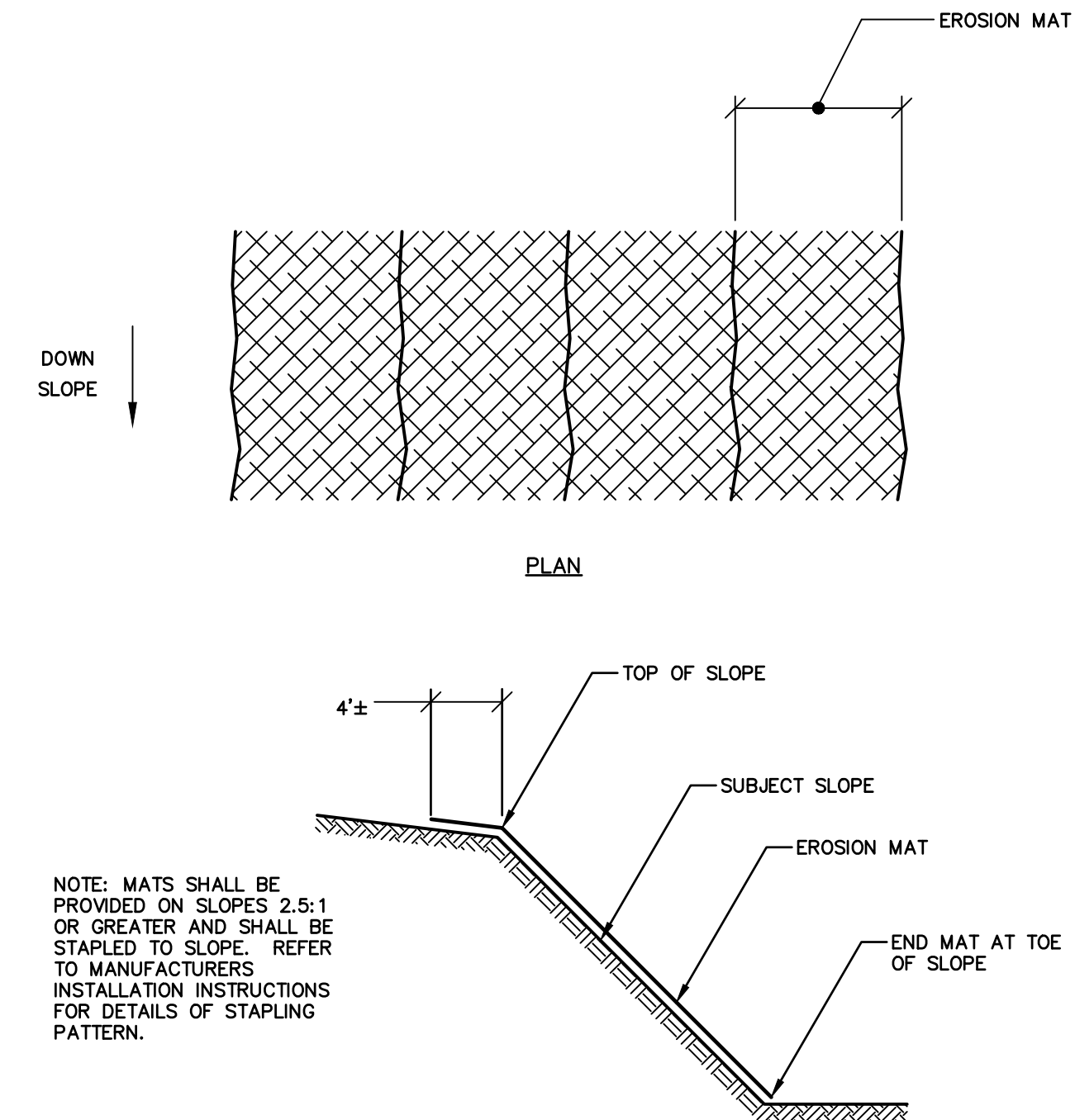
SANDBAG COFFERDAM

NOT TO SCALE



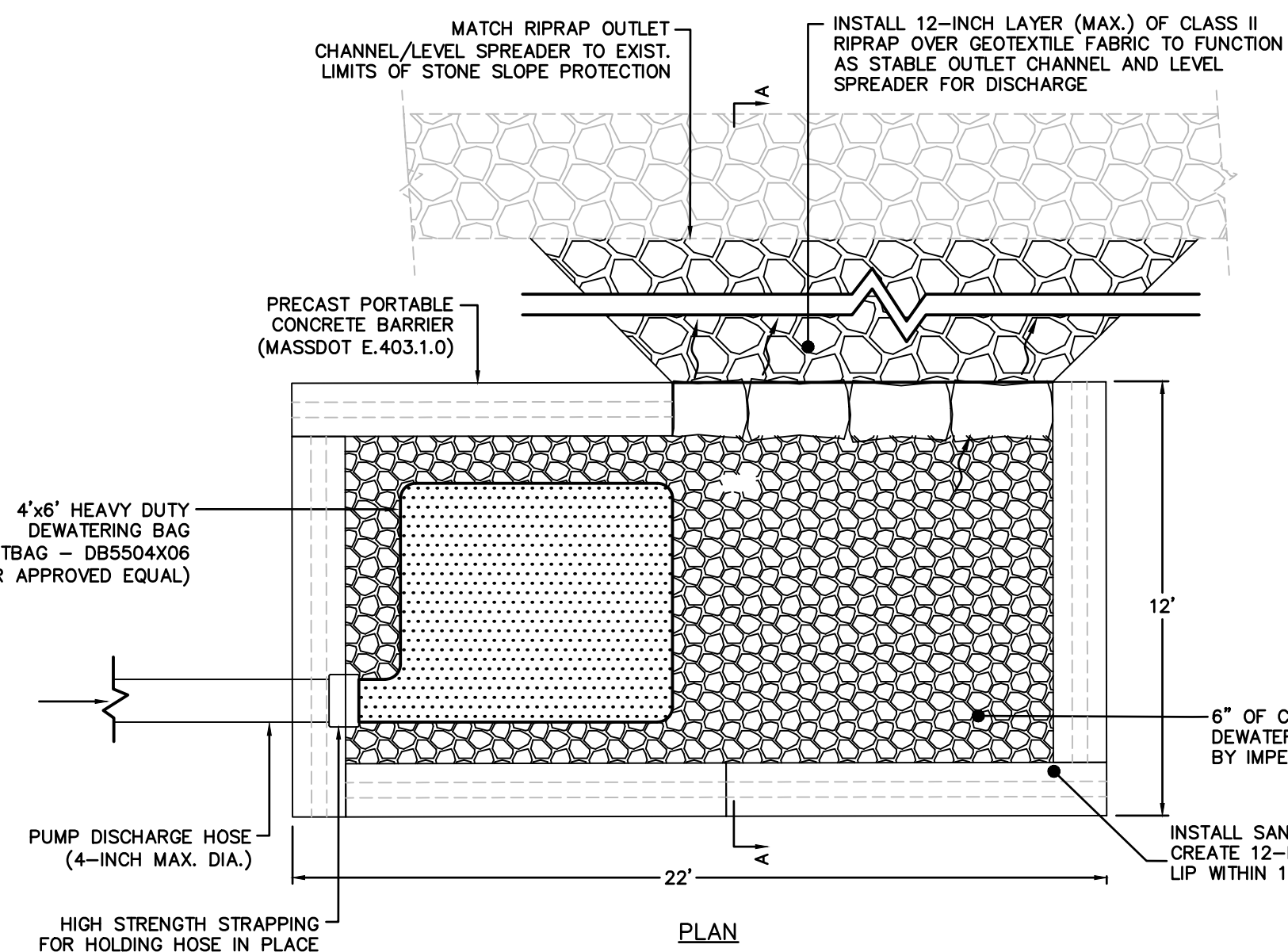
TEMPORARY STONE CHECKDAM

NOT TO SCALE



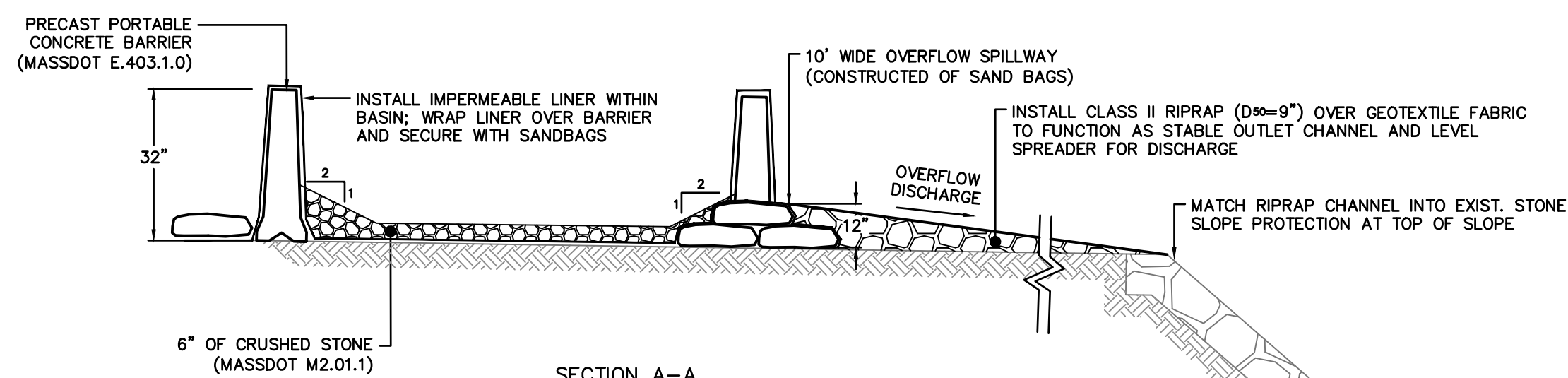
TEMPORARY EROSION CONTROL MAT

NOT TO SCALE



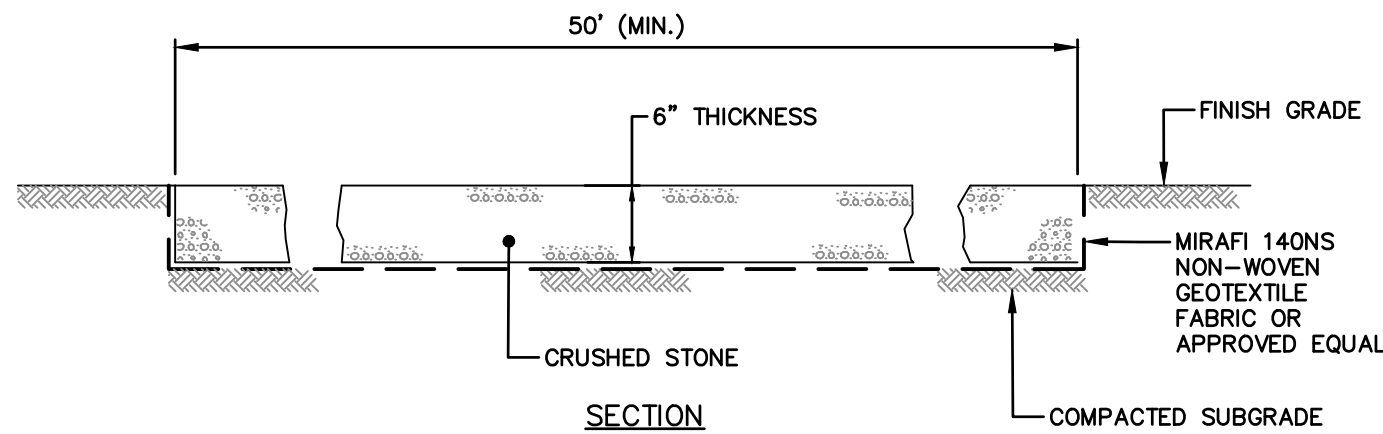
NOTES:

1. THE DEWATERING BAG, DIRTBAG DB 55 OR APPROVED EQUAL, SHALL BE HEAVY DUTY AND CONSIST OF A NONWOVEN BAG SEWN WITH A DOUBLE NEEDLE MATCHING USING A HIGH STRENGTH THREAD.
2. EACH DEWATERING BAG SHALL HAVE A TILL SPOUT LARGE ENOUGH TO ACCOMMODATE A 4-INCH DISCHARGE HOSE. THE BAG SHALL BE PROVIDED WITH STRAPS TO SECURE THE HOSE AND PREVENT PUMPED WATER FROM ESCAPING WITHOUT BEING FILTERED.
3. MAINTAIN DEWATERING BAG(S) AS NECESSARY TO EFFICIENTLY FILTER SEDIMENT OR PASS WATER AT A REASONABLE RATE. USE OF EXCESSIVE FLOW RATES OR OVERFILLING DIRTBAG OF THE HOSE ATTACHMENT STRAPS WITH SEDIMENT WILL CAUSE RUPTURES OF THE BAGS OR FAILURE.
4. DISPOSE OF DEWATERING BAG AND CONTENTS AT OFF-SITE DISPOSAL FACILITY IN ACCORDANCE WITH LOCAL, STATE, AND/OR FEDERAL REGULATIONS.
5. INSTALL DEWATERING BAG AND CRUSHED STONE BEDDING WITH A SLOPE SO INCOMING WATER FLOWS DOWNHILL THROUGH THE BAG WITHOUT CREATING MORE EROSION. STRAP THE NECK OF DEWATERING BAG TIGHTLY TO THE DISCHARGE HOSE.
6. GEOTEXTILE FILTER FABRIC SHALL CONSIST OF A NONWOVEN GEOTEXTILE FABRIC CONFORMING TO TYPE III FABRIC IN ACCORDANCE WITH TABLE II, SECTION M.9.50.0 OF THE MASSDOT STANDARD SPECIFICATIONS.
7. THE IMPERMEABLE LINER SHALL CONSIST OF A 30-MIL THICK PVC LINER.



PUMP SETTLING BASIN WITH DEWATERING BAG

NOT TO SCALE

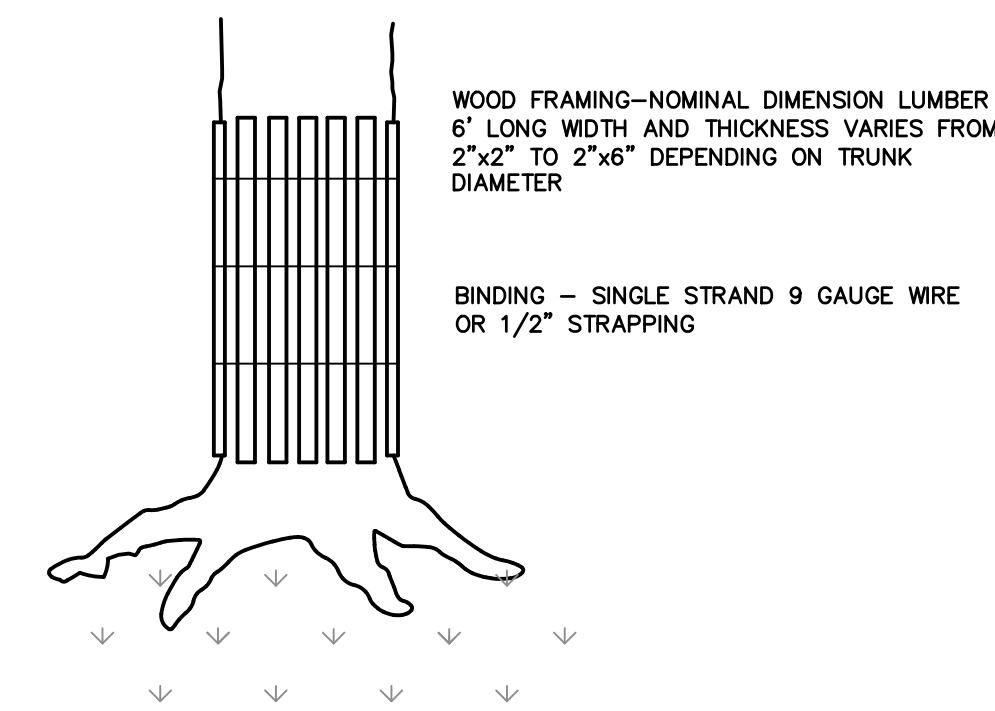


NOTES:

1. MAINTAIN CONSTRUCTION ENTRANCE IN GOOD CONDITION THROUGHOUT CONSTRUCTION PERIOD.
2. ANY PAVED AREAS, ADJACENT TO THE CONSTRUCTION ENTRANCE SHALL BE SWEEPED DAILY TO REMOVE ANY MATERIAL THAT MAY BE TRACKED ONTO PAVEMENT.
3. REMOVE STONE, FABRIC, AND TRACKED MATERIALS FOLLOWING CONSTRUCTION ACTIVITIES AND RESTORE AREA TO ORIGINAL CONDITION.
4. CRUSHED STONE SHALL CONFORM TO THE GRADATION LISTED FOR M2.01.0 OF THE MASSDOT STANDARD SPECIFICATIONS.

TEMPORARY CONSTRUCTION ENTRANCE

NOT TO SCALE



TREE PROTECTION DEVICE

NOT TO SCALE

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

NOT FOR CONSTRUCTION

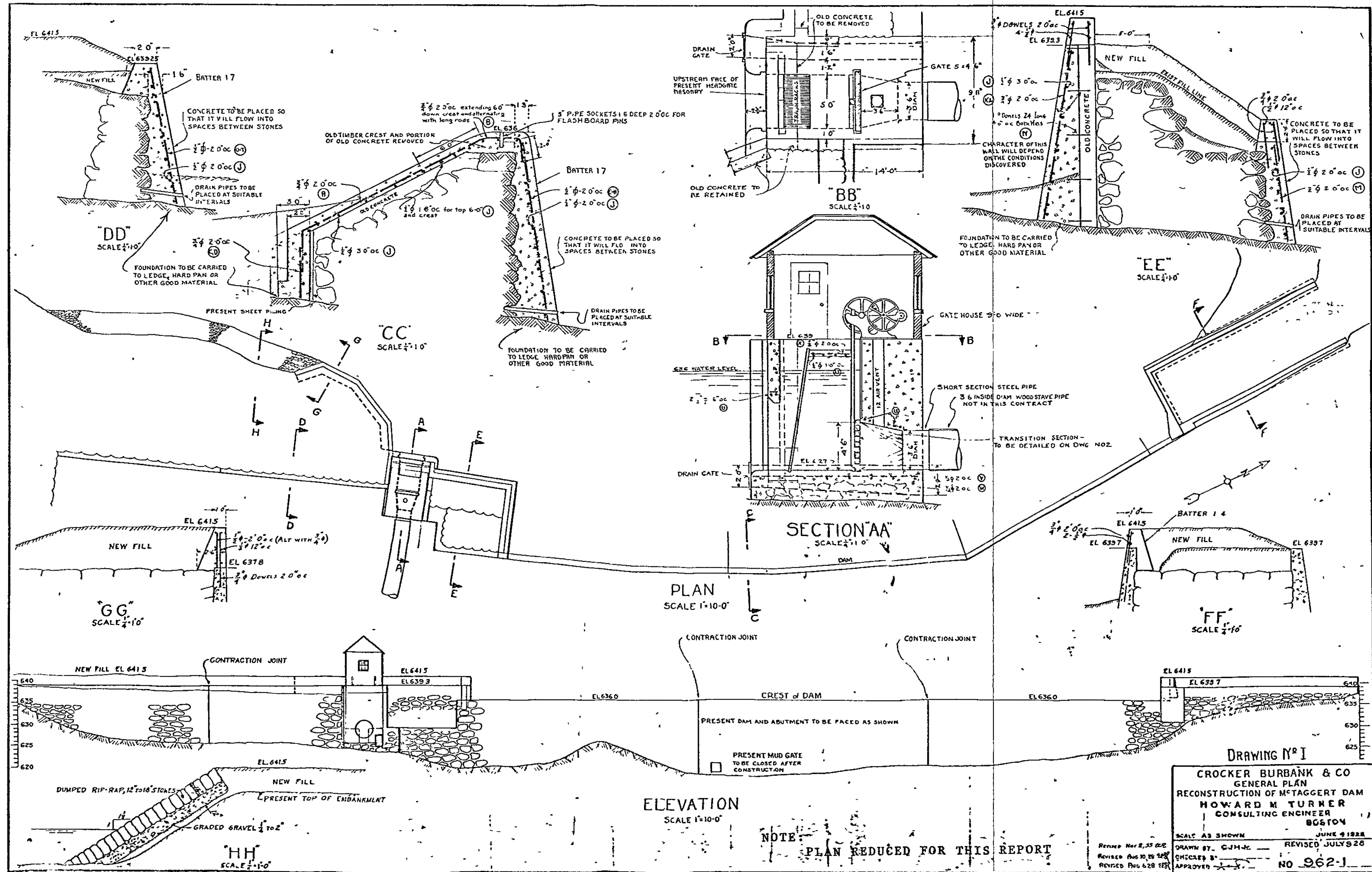
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	VERT.:
DATUM:	HORZ.: NAD83
	VERT.: NAVD88
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GRAPHIC SCALE	

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CITY OF FITCHBURG
CIVIL SITE DETAILS
MCTAGGART'S POND DAM REMOVAL AND
PHILLIPS BROOK RESTORATION PROJECT
FITCHBURG MASSACHUSETTS

PROJ. No.: 20200263.D20
DATE: DECEMBER 2024
CD-501

File Path: J:\DWG\2020\2020263.D20\2020263.D20.dwg Layout: VR-101 Plotted: Wed, December 11, 2024 - 4:42 PM User: sam.huffman
MS VIEW: Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION) PC3 CTB File: FO.STB



McTAGGARTS POND DAM

FIGURE B-2

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

NOT FOR CONSTRUCTION

SCALE:	HORIZ.: NTS
	VERT.:
DATUM:	HORIZ.: NAD83
	VERT.: NAVD88
	GRAPHIC SCALE

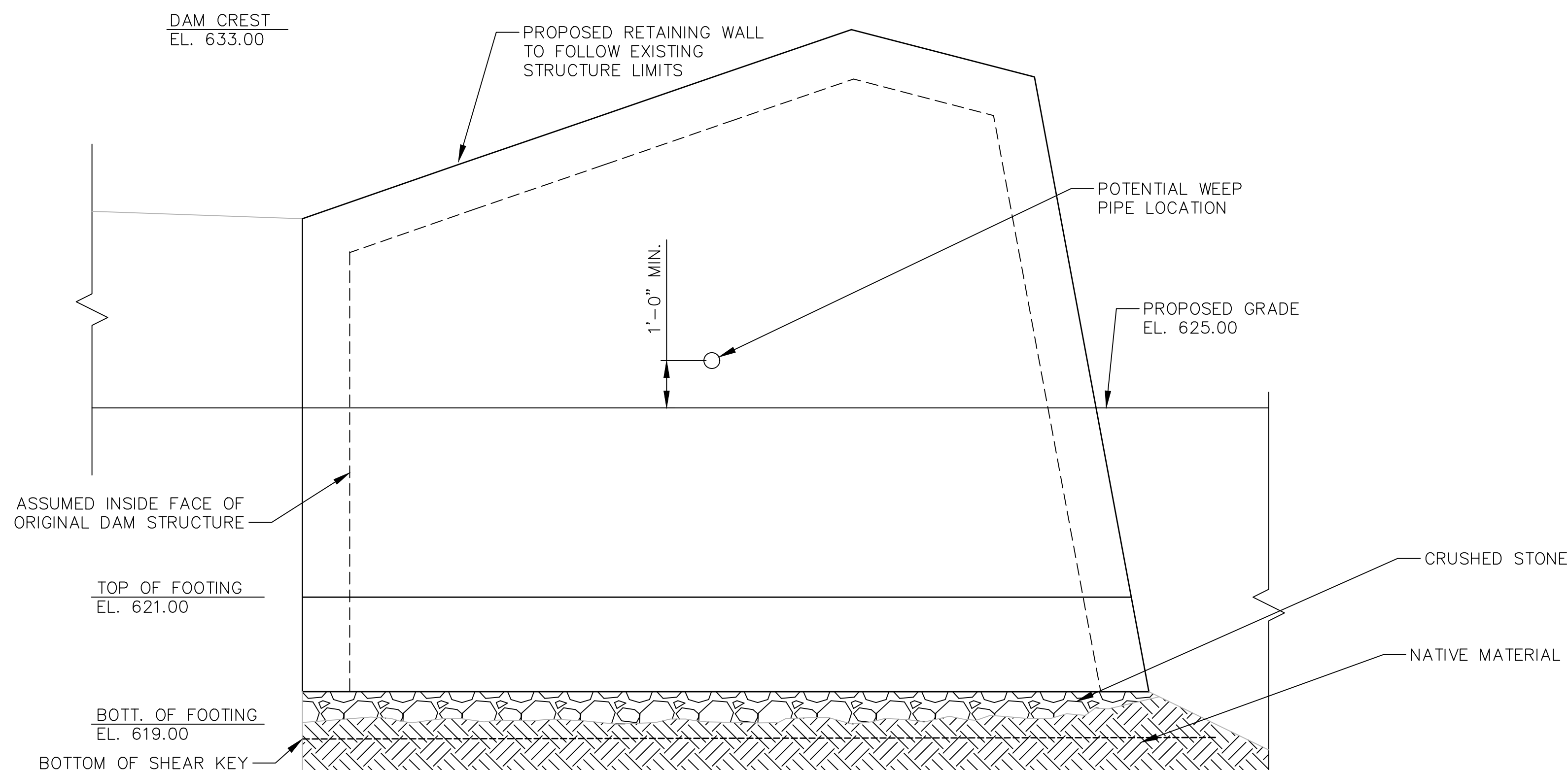
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CITY OF FITCHBURG
HISTORIC RECORD DRAWINGS
MCTAGGART'S POND DAM REMOVAL AND
PHILLIPS BROOK RESTORATION PROJECT
FITCHBURG MASSACHUSETTS

PROJ. No.: 20200263.D20
DATE: DECEMBER 2024
VR-101



GENERAL PLAN
SCALE: 1" = 10'-0"



ELEVATION
SCALE: 1/2" = 1'-0"

GENERAL NOTES:

UNSUITABLE MATERIAL:

ALL UNSUITABLE MATERIAL SHALL BE REMOVED WITHIN THE LIMITS OF THE FOUNDATIONS OF THE STRUCTURE, AS DIRECTED BY THE DESIGN ENGINEER OF RECORD.

EXISTING CONSTRUCTION:

DIMENSIONS SHOWN ARE TAKEN FROM SURVEY AND VARIOUS FIELD MEASUREMENTS AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL DETERMINE AND ESTABLISH ALL DIMENSIONS AND DETAILS NECESSARY FOR COMPLETION OF ALL WORK BY FIELD MEASUREMENT AND SURVEY. THE CONTRACTOR SHALL BE RESPONSIBLE AND NOT ORDER ANY MATERIAL OF COMMENCE ANY FABRICATION UNTIL HE HAS MADE THE REQUIRED MEASUREMENTS ON THE ACTUAL STRUCTURE AND THE EXTENT OF THE PROPOSED WORK HAS BEEN APPROVED BY THE ENGINEER.

CONCRETE MIXES:

THE FOLLOWING CONCRETE MIX UNLESS NOTED ELSEWHERE ARE TO BE USED:
4000 PSI, 1 1/2IN, 565 CEMENT

CONCRETE NOTES:

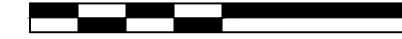
1. ALL CONCRETE WORK SHALL CONFORM TO ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
2. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60 AND BE DETAILED IN ACCORDANCE WITH ACI 315 "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES".
3. REBARS SHALL HAVE A MINIMUM CONCRETE COVER AS FOLLOWS:
CONCRETE DEPOSITED AGAINST GROUND.....3 IN.
CONCRETE EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
FOR BARS #5 AND LARGER.....2 IN.
FOR BARS SMALLER THAN #5.....1½ IN.
CONCRETE NOT EXPOSED TO THE WEATHER OR THE GROUND:
SLABS AND WALLS.....¾ IN.
4. ALL REINFORCING BARS SHALL BE CONTINUOUS AND LAPPED A MINIMUM OF 48 BAR DIAMETERS AT ALL SPLICES, CORNERS, AND INTERSECTIONS UNLESS NOTED OTHERWISE.
5. ALL REINFORCEMENT SHALL BE SECURELY TIED IN ITS PROPOSED LOCATION PRIOR TO AND DURING PLACEMENT OF CONCRETE USING APPROVED CHAIRS, SPACERS AND TIE WIRE AS REQUIRED. NO BARS SHALL BE CUT OR OMITTED IN THE FIELD WITHOUT THE APPROVAL OF THE ENGINEER.
6. CONCRETE PROTECTION FOR REINFORCEMENT SHALL IN ALL CASES BE AT LEAST EQUAL TO THE DIAMETER OF THE BAR EXCEPT FOR CONCRETE SLABS.
7. ALL FOUNDATION CONCRETE SHALL BE NORMAL WEIGHT CONCRETE AND SHALL DEVELOP A COMPRESSIVE STRENGTH OF 4,000 PSI IN 28 DAYS. CONCRETE SHALL HAVE A MAXIMUM AGGREGATE SIZE OF 1½ INCH, A MINIMUM CEMENT CONTENT OF 565 LBS/CU YD., AND A MAXIMUM SLUMP OF 4 INCHES.
8. ALL FOOTINGS AND PIERS SHALL BE CENTERED BELOW THE MEMBERS WHICH THEY SUPPORT UNLESS SHOWN OTHERWISE.
9. ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A ¾ INCH CHAMFER UNLESS NOTED OTHERWISE.
10. ALL CONCRETE EXPOSED TO THE WEATHER SHALL BE AIR-ENTRAINED.
11. SIZES AND LOCATIONS OF ALL REQUIRED EMBEDDED ITEMS FOR ALL TRADES SUCH AS ANCHOR BOLTS, PIPING SLEEVES, HOLDOWN ANCHORS, ETC., SHALL BE COORDINATED BY THE CONTRACTOR WITH OTHER TRADES.
12. CONSTRUCTION JOINTS SHALL BE DETAILED AND LOCATED ON SHOP DRAWINGS AND APPROVED BY THE ENGINEER. UNLESS SHOWN OTHERWISE, CONSTRUCTION JOINTS ARE TO BE KEYS AND PROVIDE FOR CONTINUITY OF REINFORCING STEEL. CONSTRUCTION JOINTS ARE TO BE LOCATED WHERE CONSTRUCTION OPERATIONS ARE SUSPENDED FOR 30 MINUTES OR MORE.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LIMITING POURS TO MINIMIZE SHRINKAGE CRACKING. IN GENERAL, WALLS SHALL NOT BE POURED IN CONTINUOUS LENGTHS EXCEEDING 30 FEET WITHOUT CONTRACTION (CONTROL) JOINTS. THE LOCATION AND CONFIGURATION OF JOINTS EXPOSED TO VIEW SHALL BE COORDINATED WITH THE ARCHITECT. CONTRACTION JOINTS IN SLAB-ON-GRADE SHOULD NOT EXCEED 20 FEET IN ANY DIRECTION. TYPICAL CONTRACTION JOINT PATTERNS ARE INDICATED ON FOUNDATION PLANS.
14. IF SHALLOW FOUNDATION WALLS, EXTENDED PLATFORMS, ETC. ARE POURED SEPARATELY FROM THE MAIN FOUNDATION WALLS, PROVIDE 2½ INCH DEEP KEY (FULL AREA) AND DOWEL ALL REINFORCEMENT.
15. THE LIFTING MECHANISM SHALL BE SUPPORTED BY SALVAGED TIMBERS FROM THE GATEHOUSE.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

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SCALE:	HORZ.: AS SHOWN
	VERT.: AS SHOWN
DATUM:	HORZ.: NAD83
	VERT.: NAVD88
	
GRAPHIC SCALE	

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CITY OF FITCHBURG

GENERAL PLAN AND ELEVATION

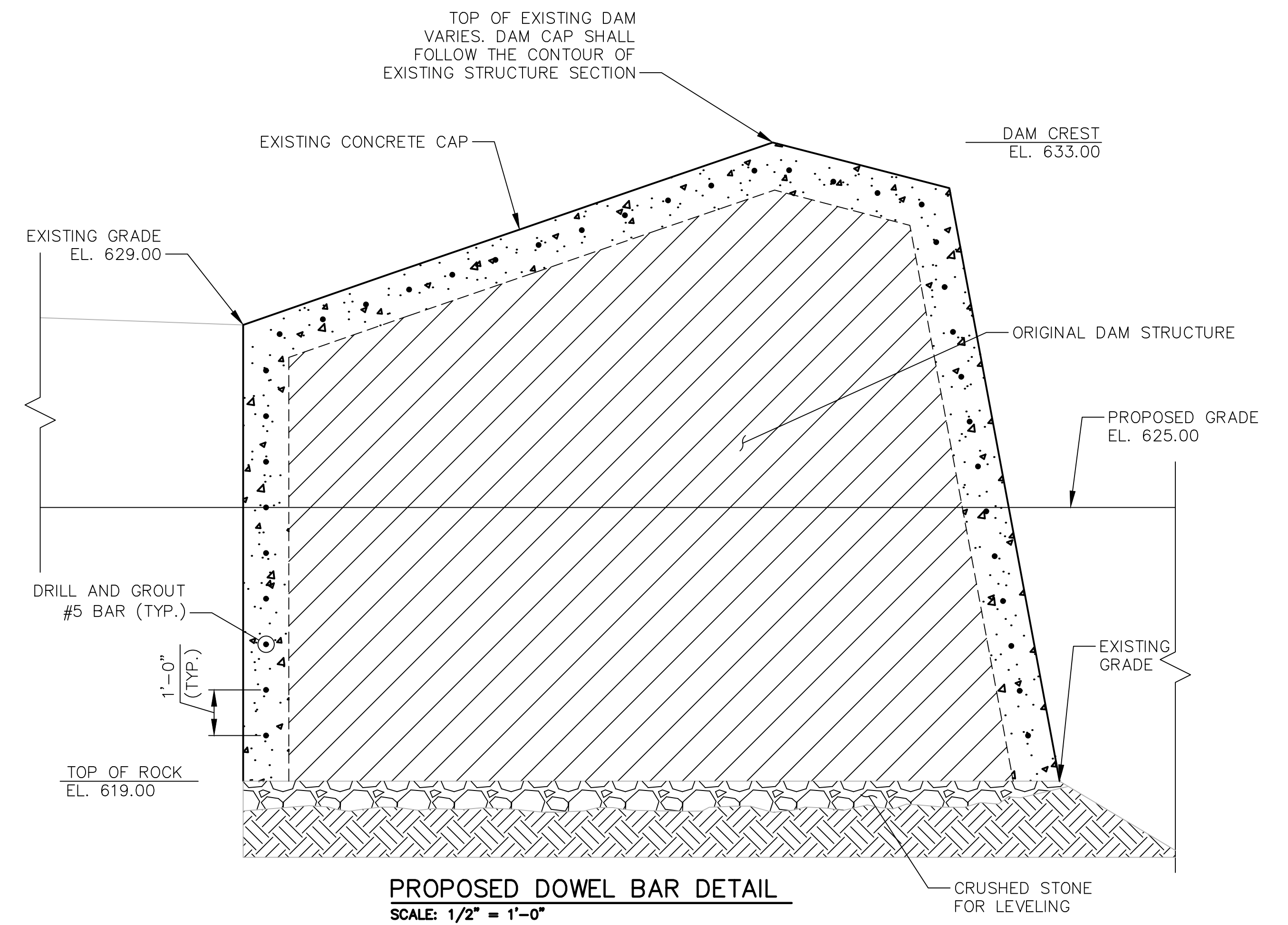
MCTAGGART'S POND DAM REMOVAL AND
PHILLIPS BROOK RESTORATION PROJECT

FITCHBURG

MASSACHUSETTS

PROJ. No.: 20200263.D20
DATE: DECEMBER 2024

STR-01



1. RETAINING WALL SHALL BEAR ON ROCK. CRUSHED STONE TO BE USED FOR LEVELING IRREGULARITIES WHERE REQUIRED.
2. WALL DESIGNED FOR MAX. OF 12'-0" STEM FROM TOP OF FOOTING. CONTRACTOR SHALL CONTACT ENGINEER IF FIELD CONDITIONS WARRANT HEIGHTS GREATER THAN 12'-0".

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

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SCALE:	HORZ.: AS SHOWN
	VERT.: AS SHOWN
DATUM:	HORZ.: NAD83
	VERT.: NAVD88
	
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FITCHBURG

MASSACHUSETTS

STR-02



US Army Corps
of Engineers®
New England District

WORK-START NOTIFICATION FORM
(Minimum Notice: Two weeks before work begins)

EMAIL TO: Maninder.Singh@usace.army.mil and cenae-r-ma@usace.army.mil; or

MAIL TO: Maninder Singh
Regulatory Division
U.S. Army Corps of Engineers, New England District
696 Virginia Road
Concord, Massachusetts 01742-2751

Corps of Engineers Permit No. **NAE-2022-01684** was issued to **Nicholas Erickson**. This work is located in McTaggart's Pond and Phillips Brook adjacent to 288 Sanborn Street, Fitchburg, Massachusetts 01420 at approximate site coordinates: 42.579511, -71.841728 and authorized to the discharge of 8,000 cubic yards of sediment across 131,688 square feet of wetlands and streambed below the ordinary high water (OHW) mark for the purpose of creating a stream post dam removal.

The people (e.g., contractor) listed below will do the work, and they understand the permit's conditions and limitations.

PLEASE PRINT OR TYPE

Name of Person/Firm: _____

Business Address: _____

Phone & email: () _____ () _____

Proposed Work Dates: Start: _____ Finish: _____

Permittee/Agent Signature: _____ Date: _____

Printed Name: _____ Title: _____

Date Permit Issued: 11/24/2025 Date Permit Expires: June 1, 2028

FOR USE BY THE CORPS OF ENGINEERS

PM: Maninder Singh Submittals Required: Yes

Inspection Recommendation: _____

U.S. Army Corps of Engineers (USACE) CERTIFICATION OF COMPLIANCE WITH DEPARTMENT OF THE ARMY PERMIT For use of this form, see Section 404 of the Clean Water Act, Section 10 of the Rivers and Harbors Act of 1899, and Section 103 of the Marine Protection, Research, and Sanctuaries Act; the proponent agency is CECW-COR.		Form Approved - OMB No. 0710-0003 Expires 2027-10-31
The Agency Disclosure Notice (ADN)		
The Public reporting burden for this collection of information, 0710-0003, is estimated to average 10 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or burden reduction suggestions to the Department of Defense, Washington Headquarters Services, at whs.mc-alex.esd.mbx.dd-dod-information-collections@mail.mil. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.		
PURPOSE: This form is used by recipients of U.S. Army Corps of Engineer Regulatory permits to certify compliance with the permit terms and conditions. Your permitted activity is subject to a compliance inspection by a U.S. Army Corps of Engineers representative. If you fail to comply with this permit, you are subject to permit suspension, modification, or revocation.		
Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the U.S. Army Corps of Engineers, <u>New England District</u>. The certification can be submitted by email at dll-cenae-r-ma@usace.army.mil or by mail at the below address: Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the U.S. Army Corps of Engineers, U.S. Army Corps of Engineers New England District Regulatory Division 696 Virginia Road Concord, MA 01742-2751		
COMPLETED BY THE CORPS		
Corps Action Number:	NAE-2022-01684	
Permit Type:	Regional General Permit	
General Permit Number and Name (<i>if applicable</i>):	GP 10: Restoration and GP 24: Temporary Fill	
Name of Permittee:	Nicholas Erickson (City of Fitchburg)	
Project Name:	McTaggart's Pond and Phillips Brook Restoration Project	
Project Location (<i>physical address</i>):	Within McTaggart's Pond and Phillips Brook, adjacent to 288 Sanborn Street, Fitchburg, Massachusetts 01420 at approximate site coordinates: 42.579511, -71.841728.	
PERMITTEE'S CERTIFICATION		
Date Work Started: _____ Date Work Completed: _____ Enclose photographs showing the completed project (<i>if available</i>). I _____ hereby certify that the work authorized by the above referenced permit has been completed in accordance with all of the permit terms and conditions, and that any required compensatory mitigation has been completed in accordance with the permit conditions.		
Name	Date	Signature